# *Fertilizer Analyses*

CONTROL SERIES—PUBLISHED QUARTERLY *August Issue 1923*—No. 102

**"FERTILIZER INSPECTOR IN ACTION"**

"For the Land's sake use good Fertilizers"

STATE FERTILIZER DEPARTMENT

Controlled by

*University of Maryland*

COLLEGE PARK, MD.

Entered at College Park, (Md.) Post-Office as Second Class Matter.

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# FERTILIZER ANALYSES

From January 1st, 1923, to July 1st, 1923.

Compiled and edited under the supervision and direction of Neil E. Gordon, State Chemist, and Leslie E. Bopst, Chemist in Charge of Fertilizer, Feed and Lime Departments.

**Dr. A. F. Woods, President,** University of Maryland.

**Board of Regents, University of Maryland.**

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## ADVISORY COMMITTEE

At the instigation of the Executives of the State Fertilizer Law there was a committee appointed in February whose function is to act in an advisory capacity to the executives in the solving of problems arising in the enforcement of this Law. This committee consists of nine men: three representing the agricultural interests, and appointed by E. P. Cohill, President of the Maryland Agricultural Society; three representing the fertilizer trade, and appointed by Gustavus Ober, Jr., President of the National Fertilizer Association; and three from the University of Maryland, appointed by President Woods.

The members of this committee are:

| Agricultural Interest | Fertilizer Trade | University of Maryland |
|---|---|---|
| Mr. F. W. Mish | Mr. H. W. Detrick | Dr. H. J. Patterson |
| Mr. C. C. Gelder | Mr. A. T. Dukes | Dr. A. G. McCall |
| Mr. G. I. Gardiner | Mr. E. L. Winder | Dr. E. C. Auchter |

The first meeting of this committee was held in Baltimore, April 13. Among the more important matters decided at this meeting was the publishing, in pamphlet form, semi-annually, all fertilizer registrations, and to allow manufacturers a tolerance of 20% when stating the sources of the plant foods which go to make up their respective fertilizers.

## STATE FEED, FERTILIZER AND LIME DEPARTMENT

N. E. Gordon, Ph.D., State Chemist.

L. E. Bopst, B. S., Chemist in Charge of Feeds, Fertilizer and Lime.

L. H. Van Wormer, M. S., First Assistant Chemist.

A. L. Flenner, B. S., Assistant Chemist.

H. R. Walls, Assistant Chemist.

E. C. Donaldson, M. S., Assistant Chemist.

F. R. Darkis, B. S., Assistant Chemist.

The inspection, analysis and control work of the fertilizer, feed and lime trade is carried on by the State Department, but the State Department is so related to the chemical work of the University that the other men of the Chemical Staff who are mentioned below may be called on in time of extra work. Also it is the purpose of the majority of this Chemical Staff to be carrying on some investigations which bear directly or indirectly on the properties of feeds, fertilizers and limes.

## CHEMICAL STAFF

N. E. Gordon, Ph.D., *Head of Chemistry Department*

### Physical Chemistry

M. R. Haring, Ph.D., *Assistant Professor*

E. G. Van den Bosche, *Assistant*

### Industrial Chemistry

L. B. Broughton, M. S., *Professor*

J. H. Gardner, Ph.D., *Assistant Professor*

J. D. Scheuch, M. S., *Assistant*

### Organic Chemistry

M. Kharasch, Ph.D., *Professor*

M. Grafflin, B. S., *Assistant*

### Inorganic Chemistry

E. B. Starkey, M. S., *Instructor*

D. Lichtenwalner, M. S., *Instructor*

J. W. Elder, B. S., *Assistant*

### Analytical Chemistry

R. C. Wiley, M. S., *Associate Professor*

## INTRODUCTION

The fertilizer inspection work, performed from February 1st to August 1st, and conducted in accordance with the law regulating the sale of commercial fertilizers, consisted in the registration of the several brands to be offered for sale, the inspection of methods of labeling and selling, the collection and analysis of official samples to determine whether or not the guarantees required to be printed upon sacks or attached cards, were correct, and the analysis of special samples submitted by residents of the State.

The inspection is for the purpose of protecting the interests of the user of fertilizer. In order that the purchaser may know what he is getting, the law requires that a statement of the guaranteed analysis be attached to the goods. The inspection service checks up the manufacturers statement of the analysis and this report shows how the composition of the goods compares with that statement.

The law also protects the manufacturer, because the statement of guaranteed analysis which must accompany all fertilizers sold in this State protects the makers of good fertilizers from the competition of inferior or spurious mixtures. No law can accomplish these ends, however, without intelligent discrimination by the purchasers. Furnished with the guarantees of the goods, and knowing the prices charged for the various brands, the purchaser can readily figure which is the most economical purchase. The price per ton is often misleading. Usually the highest priced fertilizers furnish actual plant food at the smallest cost per pound.

The inspection work of the past eight months discloses very few failures on the part of manufacturers to come up to their guarantees. Unfortunately we were not able to secure samples of every brand of fertilizer that was offered for sale, however, our records show seventy-five per cent brands sampled of the total number registered, which compares very favorably with the majority of States.

It was found necessary to compel satisfactory financial adjustment where few violations of a more marked or serious nature were found. However, these were not numerous and in a large number of cases the fertilizers were found to be better than claimed. It is indeed gratifying to note that, as a rule, the analyses run above the guarantees, and that few deficiencies were found. The inspection work has been vigorous and thorough and the traffic is so well regulated that there appears to be little disposition on the part of the manufacturers to evade the law.

## FACTS CONCERNING FERTILIZERS

Our records show an approximate expenditure of between four and five millions of dollars for fertilizers by Maryland farmers last year. The protection of fertilizer buyers in the expenditure of this tremendous sum is of great importance. It is to this task that fertilizer inspection is devoted. This bulletin is published for the purpose of giving to farmers and other purchasers information relative to Commercial Fertilizers, to the end that purchasers may know the percentages of nitrogen, phosphoric acid and potash. Figures in this bulletin show the percentages guaranteed by the manufacturer and the percentages found by the State Department's Chemists after analysis. The publication of the figures contained in this bulletin serve as a protection to purchasers of fertilizers, and are relied upon by dealers and farmers generally, yet it has to be made use of if the consumer is to be protected. Therefore,

DO NOT THROW THIS BULLETIN AWAY.
READ IT. USE IT WHEN YOU BUY FERTILIZERS.

## TO THE CONSUMER

As previously stated, the Maryland Fertilizer Law exists largely for the protection of the consumers, and the honest manufacturers. However, the State Fertilizer Department expects the users of fertilizing materials to cooperate to the extent at least of not buying products that are improperly labeled for such a fertilizer may be of inferior grade. Study the guaranteed analysis, given on the container, using this information as a guide in the selection of fertilizers that suit your particular need. It is to be regretted that many farmers are guided more by the price of a fertilizer than by the analysis. But they should always bear in mind the fact that **high grade fertilizers are always the cheapest in the long run.**

## TO SELLING AGENTS

Before engaging in the sale of fertilizers write for a copy of the law and acquaint yourself with its provisions.

Consult the reports of this Department and contract to represent only such companies as have a good record of inspection. Do not represent manufacturers who fail to brand their commodities, or who ship deficient or adulterated fertilizers.

Keep in mind at all times that the same penalty attaches to exposing or offering unlabeled fertilizers for sale as for selling the same and that the local dealer is directly responsible for fertilizer in his possession failing to meet the requirements of the law. (*Dealers should specify on all orders that the manufacturers comply with the State Law.*) If you are in doubt regarding any manufacturer, or fertilizer, write for information. This Department is always ready to advise you.

## TO MANUFACTURERS

Each brand of fertilizer must be registered with the State Fertilizer Department, preferably upon blank registration forms furnished by this Department. In filling out the registration form, a true statement of the guaranteed analysis and of all ingredients of which the fertilizer is composed must be given and these cannot be lowered throughout the year.

The State Fertilizer Law requires manufacturers to secure registrations before the fertilizer is sold. Do not wait for notification and then write an apologetic communication to the effect that this was overlooked in the rush of work. This precipitates a condition that is not pleasant for any of the parties concerned.

Most manufacturers and dealers recognize that only by supporting the fertilizer law can they do honest business without dishonest competition. Consumers likewise find that the law is of immense help to them and are becoming more discriminating, consequently, the dishonest manufacturer is finding it harder and harder to find customers.

It is not the intention nor the policy of the Fertilizer Department to see how much dissatisfaction we can arouse, nor how many prosecutions we can instigate, but rather to carry on a constructive control in order that the sale of good fertilizer may be promoted. And it should be the purpose of all fertilizer regulatory measures to require the manufacturers of fertilizers to prepare a wholesome article and to honestly inform the public, as to the character, type and kind of fertilizer offered. It is our aim to cause as little interference with legitimate business as is consistent with the Maryland Fertilizer Law.

## COMMERCIAL FERTILIZERS

The value of any commercial fertilizer depends mainly upon the amount of available plant food that it contains, and this availability depends largely upon the materials of which the fertilizer is composed. Certain substances contain plant food elements in large quantities, but when applied to the soil, they show very little, if any immediate benefit.

Ground leather, hair, waste, hoof, horn or peat, which contain varying proportions of nitrogen, are materials in which the plant food is largely unavailable, and, hence, our law does not allow such material to be used for fertilizer unless chemically treated. Consequently, the Maryland law prohibits the use of these untreated materials as constituents of mixed fertilizers and no fertilizer containing these materials will be registered.

For the protection of farmers most of the states have provided laws for the regulation of the sale of commercial fertilizers, and these laws while varying somewhat in detail in different states should all have the same objects in view.

1st—To protect the consumer by requiring the manufacturer to live up to his own set standards of guarantees.

2nd—To protect the legitimate licensed manufacturers and dealers against those who try to sell fertilizers outside the law.

3rd—To promote harmony in all phases of dealings among consumers, manufacturers and those charged with the control work

The Maryland Fertilizer Law requires that every bag, barrel or package of fertilizer must bear plainly on the outside of same in the order herein stated the following:

The net weight of the contents of the package or lot in pounds.
The brand name or trade mark.
The Grade as (4-8-5), etc.
Guaranteed analysis in percentages.

Total nitrogen and/or its equivalent to Ammonia.
Water Soluble Nitrogen and/or its equivalent to ammonia.
Available Phosphoric Acid.
Water Soluble Potash.
Name and address of manufacturer.

The law also requires the guaranteed analysis together with the sources of the plant food to be registered with the State Fertilizer Department. The request for registration of each brand is carefully examined before it is accepted, and if it is found that any objectionable materials are used, that particular brand is not registered and the sale is prohibited.

Farmers should realize more and more the importance of studying the requirements of their soils, and buying fertilizers containing the proper

proportions of the plant food elements to fill these requirements, but it still appears to be the practice of some of the farmers of the state to buy fertilizer in a slipshod manner, without giving sufficient thought to what their crops and soils really need, consequently, in many cases, their money is to a certain extent thrown away. Money spent for nitrogenous fertilizer to be used on fields which already contain an adequate supply of nitrogen is just so much money wasted, and the same applies to the other two plant food elements. The sooner the farmers realize the fact that the brand name has but little bearing on the plant food contents of a fertilizer, but that the guaranteed analysis printed on the bag is an approximately correct statement of the composition of the contents of the bag, the sooner will they begin to buy intelligently, and come somewhere near getting full value for their money. There are hundreds of brands of fertilizer on the Maryland markets, but the number of formulæ is limited, the same formula often being sold under several brand names. Manufacturers have been known to fill bags with exactly the same mixture, from the same piles, and sell under different brand names, and occasionally different prices are charged for the different brands, while in truth they are all exactly the same fertilizer, the only difference being the branding on the bags.

As stated previously, the farmers as a rule do not seem to realize that it is the very poorest kind of economy to buy low grade fertilizers, for we still find large tonnages of the low grades being sold each year. Manufacturers have been known to market low grade mixtures under high sounding brand names, often recommending them for practically all crops. The prices asked for these low grade fertilizers are, of course, somewhat less than the price for high grade goods, but when the amount of inert substance found in low grade commodities is taken into consideration it is clearly shown that the farmer is having to pay freight on quite a large amount of worthless material in order to get a little bit of plant food.

The cost of mixing, bagging, handling, and the freight on the low grade fertilizer is just the same as on the highest grade that it is possible to make, and it does not take much calculating to see that the manufacturer is compelled to charge more per unit for the plant food in the low grade than in the high grade fertilizer.

Low grade fertilizer is a poor investment—as is low grade goods of any kind. The buyer must learn to understand the analysis on the container and to buy fertilizers for their quality.

The trouble seems NOT to be that the manufacturer is attempting to sell goods below the quality that is guaranteed, but that the farmer is buying materials which the branding plainly shows are inferior, doubtless because they are cheaper than the better grades.

The manufacturer is going to sell everything for which there is a demand, and the law can do no more than require him to mark the goods as to their true grade. There is no protection for one who buys a material that bears an analysis showing it to possess only a small percentage of plant food.

## FREE ANALYSIS OF FERTILIZERS FOR FARMERS

Section 9, of the Law (Act 1920), provides that any purchaser of fertilizer provided he is not a manufacturer or agent of the same, may have taken in the presence of a disinterested witness, samples of fertilizer and forward same with all transportation charges prepaid, to the State Fertilizer Department for analysis, provided that samples so taken shall be from unbroken bags, which have not been damaged or injured in any way, and which have not been in the possession of the owner more than thirty (30) days, provided further that said samples be taken from at least 5% of the bags comprising the brand purchased. In addition each sample shall be fully described on forms furnished by the State Department, said description giving a full and complete statement of the time

and place of sampling of all marks on the bags and of all facts relating to the same. This description must be signed by the purchaser of the fertilizer, the person drawing the sample, and the witness. This information shall not be sent to the State Department until the report of analysis has been received by the sender of the fertilizer.

We desire here to emphasize this gratuitous analysis of fertilizer, which apparently does not seem to be fully understood by those concerned. Complete understanding of these points will greatly increase the effectiveness of our work and its value, both to sellers and users of fertilizers. The State Department every year analyzes a large number of samples sent by individuals, representing fertilizers bought by them for their own use. The object of the sender is to learn whether the fertilizer contains all that is guaranteed, and if it does not, to provide evidence for a claim against the seller. (*It is absolutely necessary that the sample should be taken essentially in the way prescribed by law and that is with a properly executed blank and in the presence of a witness*). If this is not done, it will be impossible for the Department to give an official analysis.

Farmers who have bought several tons of fertilizer and used all but one bag or a part of one bag and then decide to have it analyzed should realize that this one bag does not represent the whole amount purchased. In the first place, fertilizers are not always uniform in composition, due to incomplete mixing; and, in the second place, the small amount left over may have gained or lost moisture according to the place of storage and the weather conditions, and a sample taken from so small a portion, after considerable time has elapsed, may very likely run either better or poorer than the whole in its original condition. It would be very seldom that it would represent the whole lot just as it was purchased. In fact, the results of such an analysis would be worse than useless because they would be misleading. A compliance with the law regarding samples of this nature makes the analysis of public interest and value, which is the only justification for doing the work at state expense, and it is the only way by which it is possible for the sender to learn the true composition of the stock sampled, and to prove its composition if a claim for rebate is made.

## FERTILIZER INGREDIENTS

In order that fertilizers may be more intelligently used, and that a wiser choice may be exercised in the purchase of commercial brands, a definite knowledge of their composition and source is necessary. An attempt will be made in the following paragraphs to explain some of the terms used in the fertilizer industry.

### Ingredients

These are usually definite substances that are either by-products of some industry or prepared specifically for the one or more plant foods that they may contain. For example, Bone Meal and Tankage are by-products of the packing houses, while nitrate of soda is mined from natural deposits.

### Mixed Fertilizers

The mixed or complete fertilizers are composed of a combination of ingredients in proportions that give certain amounts of nitrogen, phosphoric acid and potash, and are usually sold under specific names or brands. These brands are so compounded by the manufacturer that they contain those plant foods in proportions suitable for certain crops and soils.

### Available Plant Foods

A plant food or element is considered "available" when it can readily be taken up by the plant.

### Unavailable Plant Foods

A plant food is considered unavailable when it is in such form that plants cannot use it under any natural conditions, or when it becomes available so slowly under favorable conditions, as not to furnish, during a single growing season, appreciable amounts of material that can be used by the growing crops.

### Nitrogen

Nitrogen is the most expensive plant food element the farmer has to buy, and is probably the most commonly used. It exists in the organic state like the nitrogen of dried blood, bone-meal, fish meal, tankage and the guanos. Examples of nitrogen in the inorganic form are nitrate of soda, and sulphate of ammonia. The inorganic nitrogen of fertilizers is immediately soluble and readily becomes available for plants, while the organic form must be changed in the soil to an available state. Before assimilation by the plants, the nitrogen must be in a soluble state. Inorganic nitrogen is usually readily soluble, while organic nitrogen when worked into the soil is usually made available by chemical and bacterial action. In general, it may be said that all quick growing crops require nitrogen in a form that is immediately available, while crops that grow slowly and have a longer season make more economical use of a comparatively slow acting nitrogen fertilizer. Therefore, the matter of availability is an important one, and the farmer should endeavor to supply nitrogen in the form most suited for each particular kind of crop. The form in which ingredients exist in a mixed fertilizer may be ascertained from the agent or manufacturer. It is also published in Bulletin form by this Department, and is forwarded to the public during the months of January and June.

### Potash

Potassium for fertilizers is usually obtained in the form of potash salts mined from the earth, and is represented on the tag or sack as $K_2O$. The minimum amount actually present in a fertilizer is stated on the label so that no difficulty should be experienced in judging the commercial value of any fertilizer from that standpoint.

### Phosphoric Acid

The designation of this constituent of commercial fertilizers is perhaps somewhat confusing. Phosphoric Acid does not mean that fertilizers contain free phosphoric acid. The term phosphoric acid used with reference to fertilizers is merely a convenient designation of the amount of phosphorus present in a fertilizer. Chemists express the amount of the element phosphorus present in a fertilizer by the formula $P_2O_5$, and refer to it as phosphoric acid.

Phosphorus is largely secured in the form of rock phosphate from mines in South Carolina, Florida, and Tennessee. After it is taken from the mine it is ground into a fine powder and sold either as raw rock phosphate or sent to an acidulating plant and treated with sulphuric acid in order to make the phosphorus more quickly available for crops. In this form it is known as acid phosphate.

Available phosphoric acid means the amount of phosphoric acid that is in a condition for immediate use by the plant during the growing season.

Insoluble or unavailable phosphoric acid is that portion of the phosphorus content of fertilizers that is only very slowly changed to a condition that may be taken up by the plants and is therefore of small value.

## APPROXIMATE TONNAGE REPORT OF THE VARIOUS GRADES OF FERTILIZER USED IN MARYLAND IN 1922

| Guaranteed | Tons | Guaranteed | Tons |
|---|---|---|---|
| 0-12-3 | 439 | 4-8-1 | 3 |
| 10-5-0 | 160 | 2-11-0 | 69 |
| 5-10-0 | 71 | 3-8-2 | 201 |
| 5-7-3 | 24 | 1-10-2 | 2605 |
| 0-8-7 | 49 | 2-10-1 | 37 |
| 1-10-4 | 47 | 0-8-5 | 68 |
| 0-10-5 | 1240 | 1½-8-3 | 143 |
| 7-8-0 | 14 | 3½-5¼-4 | 31 |
| 3-6-6 | 440 | 2½-10-0 | 102 |
| 3-7-5 | 70 | 3-10-0 | 9 |
| 2-8-5 | 9558 | 2-8½-2 | 156 |
| 3-8-4 | 878 | ½-8-3 | 226 |
| 4-8-3 | 174 | 1.75-7-3 | 274 |
| 3-9-3 | 30 | 5-5-2 | 12 |
| 1½-10-3 | 100 | 10-2-0 | 297 |
| 4-6-5 | 123 | 2-10-0 | 118 |
| 2½-12-0 | 12 | 2-8-2 | 7828 |
| 1-11-2 | 62 | 1-8-3 | 384 |
| 1-8-6 | 272 | .75-8-3 | 8 |
| 10-4-0 | 456 | 1¼-9-1½ | 45 |
| 4-10-0 | 9 | 0-10-2 | 265 |
| 1-8-5 | 14 | 1-10-1 | 511 |
| 2-7-5 | 443 | 0-12-0 | 344 |
| 3-8-3 | 1332 | 1¼-8-2 | 158 |
| 2-8-4 | 1379 | 1-9-2 | 1638 |
| 2-11-1 | 11 | 3-8-0 | 16 |
| 1-9-4 | 584 | ½-8-2 | 1434 |
| 2-6½-4½ | 69 | ½-10-0 | 99 |
| 0-10-4 | 276 | ½-10-1 | 361 |
| 3-7-4 | 21 | 1-8-2 | 2511 |
| 7-6-1 | 55 | 1-10-0 | 156 |
| 2-12-0 | 57 | 2-8-1 | 297 |
| 2-10-2 | 1850 | 1.75-7-2 | 477 |
| 3-9-2 | 283 | 0-4-7 | 54 |
| 0-12-2 | 167 | 1-9-1 | 10 |
| ½-9-4 | 474 | ¼-10-1 | 13 |
| 1-11-2 | 62 | 0-7-3 | 42 |
| 1-8-4 | 5795 | 2-8-0 | 21 |
| 1-9-3 | 1012 | 0-8-1¼ | 45 |
| 2-9-2 | 3414 | ½-8-1 | 150 |
| 2-8-3 | 2080 | 1-8-1 | 4501 |
| ½-8-4 | 76 | 0-8-2 | 150 |
| 5-8-0 | 207 | ¼-10-0 | 20 |

Total Tonnage of all Materials for 1922—156,188.

Grades containing more than 15% actual plant food—21,916 tons.

| | Tons |
|---|---|
| 16% Acid Phosphate | 2483 |
| 14% Acid Phosphate | 730 |
| 13% Acid Phosphate | 1672 |
| Pure and Fine Ground Bone | 1412 |
| Nitrate of Soda | 733 |
| Sulphate of Ammonia | 511 |

Grades containing less than 10% actual plant food—263 tons.

| | Tons |
|---|---|
| Ground Fish | 41 |
| Tankage | 340 |
| Muriate of Potash | 358 |
| Kainit | 1256 |
| Sulphate of Potash | 471 |
| Mixed to Order | 5700 |
| Agricultural Salt | 6 |

## EXPLANATION OF TABLES AND VALUES

Since the analysis in our laboratory gives the percentage or pounds per hundred, it is only necessary to multiply the price per pound by 20 in order to get the value of one per cent for one ton of fertilizer. This is designated in the following table as the value per unit. A unit is one per cent of one ton or twenty pounds.

### Table for Calculating Fertilizer Values

| | Per Unit |
|---|---|
| (1) Nitrogen calculated as Ammonia | $3.75 |
| (2) Available Phosphoric Acid— | |
| (a) In mixed fertilizers or in dissolved rock | .75 |
| (b) In tankage or ground bone | .60 |
| (3) Insoluble Phosphoric Acid | .20 |
| (4) Potash | .75 |

### Values

In order to compare values of fertilizers multiply the percentage of each plant food in the fertilizer by the respective value per unit given in the table, and add the results together: For example, in the case of a complete fertilizer with an analysis of 4-8-5, we would have 4 per cent of ammonia, 8 per cent of phosphoric acid, and 5 per cent of potash. Since, by the above table, ammonia is worth $3.75 per unit, available phosphoric acid $0.75, and potash $0.75, we have $24.75.

| | | |
|---|---|---|
| 4 × $3.75 = | $15.00 | value of ammonia in 1 ton |
| 8 × .75 = | 6.00 | value of phosphoric acid in 1 ton |
| 5 × .75 = | 3.75 | value of potash in 1 ton |
| | $24.75 | value of fertilizer in 1 ton |

## TABLES

The tables on the following pages are the result of the analysis of fertilizers which have been sampled in various parts of the State from January, 1923, to July, 1923. The columns marked "Found" give the analysis of the fertilizers as determined in our laboratories, while the columns marked "Guaranteed" give the analysis guaranteed by the manufacturers of the fertilizers. Next to the last column in the tables are found the values of the fertilizers based on our analysis, while the last column gives the values based on the analysis guaranteed by the manufacturer.

| No. | Name and Address of Manufacturer and Name of Fertilizer. | Place of Sampling (and Sender's initials when not Sampled by the College Agent). | $H_2O$ Sol. AMMONIA. | | NITROGEN Calculated as AMMONIA. | | POTASH, $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **American Agri. Chem. Co., Balto., Md.** | | | | | | | | | | | | | |
| 44758 | Acid Phosphate 16% | Baltimore | ... | .... | .... | .... | .... | .... | .90 | ..... | 15.83 | 16.00 | $12.05 | $12.00 |
| 45042 | Acid Phosphate 14% | Baltimore | ... | .... | .... | .... | .... | .... | 1.20 | ..... | 15.70 | 14.00 | 12.02 | 10.50 |
| 45016 | Basic Lime Phosphate | Baltimore | ... | .... | .... | .... | .... | .... | 1.80 | 1.00 | 13.90 | 13.00 | 10.79 | 9.95 |
| 44700 | Big Crop Fish Fertilizer 4-8-4 | Canton | 3.10 | 2.10 | 4.01 | 4.00 | 4.20 | 4.00 | .70 | ..... | 8.00 | 8.00 | 24.33 | 24.00 |
| 45196 | Big Crop Phosphate 8-5 | Baltimore | ... | .... | .... | .... | 5.00 | 5.00 | .70 | ..... | 8.10 | 8.00 | 9.97 | 9.75 |
| 44737 | Big Crop 7% Potato Fert. 7-6-5 | Baltimore | 5.50 | 4.10 | 7.05 | 7.00 | 5.08 | 5.00 | 1.35 | ..... | 5.70 | 6.00 | 34.80 | 34.50 |
| 45043 | Crescent Complete Manure 2-8-3 | Baltimore | 1.50 | 1.00 | 2.12 | 2.00 | 3.00 | 3.00 | 1.15 | ..... | 8.15 | 8.00 | 16.54 | 15.75 |
| 45189 | Dissolved Phos. & Potash | Baltimore | ... | .... | .... | .... | 1.84 | 2.00 | 1.05 | ..... | 9.95 | 10.00 | 9.05 | 9.00 |
| 44774 | Dried Blood | Baltimore | ... | .... | 15.29 | 16.00 | .... | .... | ..... | ..... | .... | .... | ..... | ..... |
| 44749 | Early Truck Grower 5-7-5 | Baltimore | 4.40 | 2.90 | 5.36 | 5.00 | 5.12 | 5.00 | .95 | ..... | 6.53 | 7.00 | 29.03 | 27.75 |
| 45084 | Fish Guano 1-8-1 | Baltimore | .44 | .43 | .99 | 1.00 | 1.00 | 1.00 | 1.05 | ..... | 8.05 | 8.00 | 10.71 | 10.50 |
| 44701 | 5-8-0 | Canton | 3.90 | 2.90 | 5.00 | 5.00 | .... | .... | .65 | ..... | 8.45 | 8.00 | 25.12 | 24.75 |
| 45150 | 4-8-4 Fertilizer | Baltimore | 3.90 | 2.10 | 4.50 | 4.00 | 3.70 | 4.00 | .55 | ..... | 8.45 | 8.00 | 26.21 | 24.00 |
| 44775 | Ground Tankage | Baltimore | ... | .... | 6.01 | 6.00 | .... | .... | *14.20 | *13.73 | .... | .... | 31.06 | 30.74 |
| 45151 | H. G. Crop Producer | Baltimore | 1.50 | .... | 2.06 | 2.00 | 4.20 | 4.00 | 1.35 | ..... | 8.00 | 8.00 | 17.15 | 16.50 |
| 45062 | H. G. Potash Compound 2-8-10 | Baltimore | 1.80 | 1.00 | 2.30 | 2.00 | 10.24 | 10.00 | .45 | ..... | 9.45 | 8.00 | 23.49 | 21.00 |
| 44776 | Kainit | Baltimore | ... | .... | .... | .... | 12.40 | 12.40 | ..... | ..... | .... | .... | ..... | ..... |
| 45085 | Monarch Potato Manure 4-8-4 | Baltimore | 3.20 | 2.10 | 3.88 | 4.00 | 4.20 | 4.00 | .80 | ..... | 8.10 | 8.00 | 23.94 | 24.00 |
| 44777 | Muriate of Potash | Baltimore | ... | .... | .... | .... | 49.70 | 48.00 | ..... | ..... | .... | .... | ..... | ..... |
| 44778 | Nitrate of Soda | Baltimore | ... | .... | 18.40 | 18.23 | .... | .... | ..... | ..... | .... | .... | ..... | ..... |
| 45086 | Pathfinder 1-9-3 | Baltimore | .62 | .43 | 1.11 | 1.00 | 3.00 | 3.00 | 1.25 | ..... | 9.15 | 9.00 | 13.52 | 12.75 |
| 45044 | Peerless Veg. & Gr. Grower 2-8-5 | Baltimore | 1.50 | 1.00 | 2.08 | 2.00 | 5.24 | 5.00 | 1.00 | ..... | 8.10 | 8.00 | 18.21 | 17.25 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 44702 | Plant Bed Fertilizer 10-5-0 | Canton | 6.40 | 6.10 | 7.90 | 10.00 | .... | .... | .40 | ..... | 7.33 | 5.00 | 35.21 | 41.25 |
| 45174 | Pulverized Sheep Manure | Baltimore | ... | .... | 2.61 | 2.50 | 1.60 | 1.00 | *1.30 | *1.25 | .... | .... | 11.77 | 9.38 |
| 45087 | Red Dragon Guano 2-12-2 | Baltimore | 1.50 | 1.00 | 2.03 | 2.00 | 2.12 | 2.00 | 1.40 | ..... | 11.75 | 12.00 | 18.29 | 18.00 |
| 45107 | Rival Fish Compound 2-8-4 | Betterton | 1.50 | 1.00 | 2.13 | 2.00 | 3.94 | 4.00 | 1.30 | ..... | 8.00 | 8.00 | 17.21 | 16.50 |
| 45109 | Special Mixture 2-8-6 | Baltimore | 1.50 | 1.00 | 2.00 | 2.00 | 3.40 | 6.00 | 1.40 | ..... | 8.10 | 8.00 | 16.41 | 18.00 |
| 44779 | 7-8-0 Fertilizer | Baltimore | 5.40 | 4.10 | 7.00 | 7.00 | .... | .... | .90 | ..... | 8.00 | 8.00 | 32.43 | 32.25 |
| 44739 | Special Potato Manure 3-8-4 | Baltimore | 3.40 | 1.50 | 4.15 | 3.00 | 4.36 | 4.00 | 1.38 | ..... | 7.78 | 8.00 | 24.95 | 20.25 |
| 45063 | Sulphate of Ammonia | Baltimore | ... | .... | 25.55 | 24.50 | .... | .... | ..... | ..... | .... | .... | ..... | ..... |
| 45069 | Sweepstakes Tobacco Fert. 3-8-3 | Baltimore | 2.20 | 1.50 | 3.04 | 3.00 | 3.08 | 3.00 | 1.73 | ..... | 8.02 | 8.00 | 20.08 | 19.50 |
| 45149 | Turner & Son Corn and Tomato Guano | Baltimore | .61 | .43 | 1.19 | 1.00 | 2.12 | 2.00 | .75 | ..... | 9.45 | 8.00 | 13.29 | 11.25 |
| 45108 | Turner & Son Corn and Tomato Guano | Betterton | .48 | .43 | 1.01 | 1.00 | 2.00 | 2.00 | .98 | ..... | 8.02 | 8.00 | 11.51 | 11.25 |
| 45088 | Vegetator 2-8-4 | Baltimore | 1.40 | 1.00 | 2.00 | 2.00 | 4.52 | 4.00 | .73 | ..... | 7.77 | 8.00 | 16.87 | 16.50 |
| 45089 | Victory Phosphate & Potash | Baltimore | ... | .... | .... | .... | 5.00 | 5.00 | .75 | ..... | 11.90 | 12.00 | 12.83 | 12.75 |
| | **A. A. C. Co. (Alexandria), Balto., Md.** | | | | | | | | | | | | | |
| 45110 | Fish Bone & Potash 2-8-3 | Baltimore | 1.40 | 1.00 | 2.01 | 2.00 | 2.74 | 3.00 | 1.50 | ..... | 8.50 | 8.00 | 16.28 | 15.75 |
| | **A. A. C. Co. (Canton), Balto., Md.** | | | | | | | | | | | | | |
| 45064 | Baker's Fish Guano 2-8-2 | Baltimore | 1.60 | 1.00 | 2.18 | 2.00 | 2.16 | 2.00 | .85 | ..... | 8.65 | 8.00 | 16.46 | 15.00 |
| 45175 | Baker's Spec. Wht., Corn & Grass Mix. | Baltimore | .46 | .43 | 1.02 | 1.00 | 2.08 | 2.00 | 1.25 | ..... | 9.15 | 9.00 | 12.50 | 12.00 |
| 44712 | Baker's Standard Guano 2-8-3 | Baltimore | 1.70 | 1.00 | 2.12 | 2.00 | 3.32 | 3.00 | .90 | ..... | 8.70 | 8.00 | 17.15 | 15.75 |
| 45111 | Eagle Phosphate 1-7-1 | Baltimore | .50 | .43 | 1.01 | 1.00 | 1.08 | 1.00 | 1.35 | ..... | 7.35 | 7.00 | 10.38 | 9.75 |
| 45112 | Harrow Brand Crop Grower 1-8-1 | Baltimore | .48 | .43 | .99 | 1.00 | 1.92 | 1.00 | 1.15 | ..... | 8.35 | 8.00 | 11.64 | 10.50 |
| 45176 | Resurgam Guano | Baltimore | 1.30 | .43 | 1.83 | 1.00 | 2.48 | 4.00 | 1.25 | ..... | 8.45 | 8.00 | 15.41 | 12.75 |
| | **A. A. C. Co. (Copes), Balto., Md.** | | | | | | | | | | | | | |
| 45152 | H. G. Super Phosphate | Baltimore | ... | .... | .... | .... | .... | .... | 1.18 | ..... | 15.62 | 16.00 | 11.96 | 12.00 |
| 45113 | Potato, Corn, Tobacco 1-8-4 | Baltimore | 1.50 | .43 | 2.10 | 2.00 | 4.24 | 4.00 | .65 | ..... | 7.95 | 8.00 | 17.15 | 16.50 |
| 45114 | Special Phosphate 1-9-3 | Baltimore | .46 | .43 | 1.06 | 1.00 | 3.00 | 3.00 | 1.23 | ..... | 8.67 | 9.00 | 12.98 | 12.75 |
| 45190 | Spring and Fall Mixture | Baltimore | .68 | .43 | 1.19 | 1.00 | 3.32 | 2.00 | .85 | ..... | 9.55 | 8.00 | 14.28 | 11.25 |
| | **A. A. C. Co. (Detrick), Balto., Md.** | | | | | | | | | | | | | |
| 44713 | Boss Truck Grower 2-8-4 | Baltimore | 1.30 | 1.00 | 2.01 | 2.00 | 4.16 | 4.00 | .95 | ..... | 8.45 | 8.00 | 17.23 | 16.50 |
| 44714 | Gold Basis 7-6-5 | Baltimore | 5.40 | 4.10 | 6.98 | 7.00 | 5.32 | 5.00 | .55 | ..... | 6.25 | 6.00 | 34.97 | 34.50 |
| 45153 | Corn and Oats Fertilizer | Baltimore | .53 | .43 | 1.09 | 1.00 | 2.12 | 2.00 | .75 | ..... | 9.45 | 9.00 | 12.92 | 12.00 |
| 44780 | Gold Eagle 3-6-6 | Baltimore | 2.60 | 1.50 | 3.11 | 3.00 | 6.36 | 6.00 | .95 | ..... | 5.93 | 6.00 | 21.07 | 20.25 |
| 45045 | Imperial Compound | Baltimore | .50 | .43 | 1.08 | 1.00 | 2.04 | 2.00 | .75 | ..... | 8.65 | 8.00 | 12.22 | 11.25 |
| 45046 | Kangaroo Komplete Kompound 2-8-3 | Baltimore | 1.50 | 1.00 | 2.03 | 2.00 | 3.48 | 3.00 | 1.25 | ..... | 8.35 | 8.00 | 16.73 | 15.75 |
| 45177 | Quickstep Fertilizer 3-8-4 | Baltimore | 2.30 | 1.50 | 3.07 | 3.00 | 4.04 | 4.00 | .75 | ..... | 8.05 | 8.00 | 20.73 | 20.25 |
| 45090 | Royal Crop Grower 2-8-2 | Baltimore | 1.40 | 1.00 | 2.12 | 2.00 | 2.10 | 2.00 | 1.00 | ..... | 8.30 | 8.00 | 15.96 | 15.00 |
| 45178 | Special Ammoniated Compound. | Baltimore | .48 | .43 | 1.01 | 1.00 | 1.08 | 1.00 | 1.23 | ..... | 7.22 | 8.00 | 10.27 | 10.50 |
| 44740 | Special Trucker 5-7-5 | Baltimore | 4.20 | 2.90 | 5.00 | 5.00 | 5.32 | 5.00 | 1.33 | ..... | 6.37 | 7.00 | 27.79 | 27.75 |

* Total Phosphoric Acid.

| No. | Name and Address of Manufacturer and Name of Fertilizer. | Place of Sampling (and Sender's initials when not Sampled by the College Agent). | $H_2O$ Sol. AMMONIA. | | NITROGEN Calculated as AMMONIA. | | POTASH, $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **A. A. C. Co., (Detrick), Cont.** | | | | | | | | | | | | | |
| 45179 | Stand. Potash Fertilizer 1-9-3.. | Baltimore.... | **.56** | .43 | **1.11** | 1.00 | **3.00** | 3.00 | **1.30** | ..... | **9.40** | 9.00 | **$13.72** | $12.75 |
| 45154 | Tomato Guano ..... | Baltimore.... | **.77** | .43 | **1.42** | 1.00 | **2.51** | 4.00 | **1.15** | ..... | **8.05** | 8.00 | **13.48** | 12.75 |
| | **A. A. C. Co. (W. S. Farmer), Balto., Md.** | | | | | | | | | | | | | |
| 45091 | Acid Phosphate ..... | Baltimore.... | ... | .... | .... | .... | .... | .... | **1.60** | ..... | **15.85** | 16.00 | **12.21** | 12.00 |
| 44781 | Anne Arundel Trucker..... | Baltimore.... | **4.10** | 2.90 | **5.12** | 5.00 | **5.28** | 5.00 | **.90** | ..... | **6.88** | 7.00 | **28.50** | 27.75 |
| 45180 | B. & P. Phosphate..... | Baltimore.... | ... | .... | .... | .... | **1.44** | 2.00 | **.95** | ..... | **11.15** | 10.00 | **9.63** | 9.00 |
| 45115 | Fish Mixture ..... | Baltimore.... | **1.40** | 1.00 | **2.01** | 2.00 | **2.00** | 2.00 | **1.50** | ..... | **8.05** | 8.00 | **15.38** | 15.00 |
| 45092 | General Crop Grower 1-7-1.... | Baltimore.... | **.41** | .43 | **.99** | 1.00 | **1.08** | 1.00 | **1.15** | ..... | **7.15** | 7.00 | **10.11** | 9.75 |
| 45191 | Harvest Queen ..... | Baltimore.... | **.51** | .43 | **.99** | 1.00 | **3.32** | 3.00 | **1.10** | ..... | **8.90** | 9.00 | **13.10** | 12.75 |
| 44782 | Potato Guano 7-6-5..... | Baltimore.... | **5.60** | 4.10 | **7.03** | 7.00 | **5.04** | 5.00 | **.70** | ..... | **6.20** | 6.00 | **34.93** | 34.50 |
| 45192 | Standard Phosphate 2-8-4..... | Baltimore.... | **1.60** | 1.00 | **2.12** | 2.00 | **3.84** | 4.00 | **.85** | ..... | **8.55** | 8.00 | **17.41** | 16.50 |
| 44715 | Tobacco Plant Bed Fert. 10-5-2 | Baltimore.... | **7.96** | 6.10 | **9.46** | 10.00 | **2.32** | 2.00 | **.60** | ..... | **6.10** | 5.00 | **41.92** | 42.75 |
| | **A. A. C. Co. (Hess), Balto., Md.** | | | | | | | | | | | | | |
| 45093 | Fish & Potash Manure..... | Baltimore.... | **1.40** | .43 | **2.05** | 1.00 | **2.86** | 2.00 | **1.65** | ..... | **8.05** | 8.00 | **16.21** | 11.25 |
| 44738 | H. G. Truck Fertilizer 7-6-5... | Baltimore.... | **5.60** | 4.10 | **7.00** | 7.00 | **5.16** | 5.00 | **1.25** | ..... | **5.85** | 6.00 | **34.66** | 34.50 |
| 45047 | H. G. Truck Manure 7-6-5..... | Baltimore.... | **4.40** | 4.10 | **6.19** | 7.00 | **5.40** | 5.00 | **.90** | ..... | **7.80** | 6.00 | **33.29** | 34.50 |
| 45155 | Potato Crop Grower 2-8-4..... | Baltimore.... | **1.60** | 1.00 | **2.05** | 2.00 | **3.70** | 4.00 | **.75** | ..... | **8.35** | 8.00 | **16.88** | 16.50 |
| 45156 | Special Compound 1-8-4..... | Baltimore.... | **.62** | .43 | **1.01** | 1.00 | **3.30** | 4.00 | **.85** | ..... | **8.95** | 8.00 | **13.15** | 12.75 |
| 45094 | Wheat, Corn and Grass Manure | Baltimore.... | **.41** | .43 | **1.08** | 1.00 | **2.00** | 2.00 | **1.15** | ..... | **8.55** | 8.00 | **12.19** | 11.25 |
| | **A. A. C. Co. (Lazaretto), Balto., Md.** | | | | | | | | | | | | | |
| 45157 | Big Crop Grower 2-8-2..... | Baltimore.... | **1.00** | 1.70 | **2.18** | 2.00 | **1.74** | 2.00 | **.75** | ..... | **8.05** | 8.00 | **15.68** | 15.00 |
| 45065 | Farmers' Choice Guano..... | Baltimore.... | **.50** | .43 | **1.01** | 1.00 | **2.00** | 2.00 | **.70** | ..... | **8.40** | 8.00 | **11.73** | 11.25 |
| 45095 | Red Dog Guano 2-8-4... | Baltimore.... | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45095 | Red Dog Guano 2-8-4 | Baltimore | 1.70 | 1.00 | 2.17 | 2.00 | 4.36 | 4.00 | .70 | | 7.70 | 8.00 | 17.33 | 16.50 |
| 44741 | Special Potato and Tomato 1-8-4 | Baltimore | .45 | .43 | 1.06 | 1.00 | 4.28 | 4.00 | 1.17 | | 7.41 | 8.00 | 12.78 | 12.75 |
| 45096 | Special Tobacco & Potato Fert. | Baltimore | 2.30 | 1.50 | 2.99 | 3.00 | 4.24 | 4.00 | 1.25 | | 7.90 | 8.00 | 20.47 | 20.25 |
| | **A. A. C. Co. (Lister's), Balto., Md.** | | | | | | | | | | | | | |
| 45158 | Acid Phosphate, H. G. | Baltimore | ... | .... | .... | .... | .... | .... | 1.10 | | 15.65 | 16.00 | 11.96 | 12.00 |
| 45025 | Big Crop Grower 2-8-4 | Baltimore | 1.40 | 1.00 | 2.17 | 2.00 | 4.00 | 4.00 | 1.15 | | 8.75 | 8.00 | 17.93 | 16.50 |
| 45159 | Big Four Fertilizer 2-8-5 | Baltimore | 1.50 | 1.00 | 2.05 | 2.00 | 4.82 | 5.00 | .70 | | 8.50 | 8.00 | 17.83 | 17.25 |
| 45066 | Bright Leaf Tobacco 3-8-3 | Baltimore | 1.70 | 1.50 | 2.54 | 3.00 | 2.78 | 3.00 | 1.05 | | 8.85 | 8.00 | 18.47 | 19.50 |
| 45017 | Corn and Potato Fertilizer 2-8-3 | Baltimore | 1.30 | .... | 2.01 | 2.00 | 4.10 | 3.00 | 1.35 | | 8.25 | 8.00 | 17.08 | 15.75 |
| 45141 | Golden Sheaf 1-8-1 | Baltimore | .46 | .43 | .99 | 1.00 | 1.20 | 1.00 | 1.15 | | 7.45 | 8.00 | 10.43 | 10.50 |
| 45048 | "G" Brand | Baltimore | .48 | .43 | 1.08 | 1.00 | 4.40 | 4.00 | .95 | | 8.05 | 8.00 | 13.57 | 12.75 |
| 45097 | Harvest Queen Phosphate | Baltimore | .93 | .43 | 1.53 | 1.00 | 3.36 | 3.00 | .96 | | 8.59 | 9.00 | 14.89 | 12.75 |
| 45098 | Plant Food 1-10-0 | Baltimore | 1.80 | .43 | 2.36 | 1.00 | .... | .... | 1.85 | | 9.60 | 10.00 | 16.41 | 11.25 |
| 44716 | Special Potato Guano 7-6-5 | Baltimore | 5.70 | 4.10 | 7.20 | 7.00 | 5.00 | 5.00 | .50 | | 6.45 | 6.00 | 35.69 | 34.50 |
| 45193 | Special Tobacco Fert. 2-8-3 | Baltimore | 1.50 | 1.00 | 2.03 | 2.00 | 2.80 | 3.00 | 1.25 | | 8.35 | 8.00 | 16.22 | 15.75 |
| 44717 | Special Truck Fertilizer 4-8-4 | Baltimore | 3.50 | 2.10 | 4.41 | 4.00 | 4.00 | 4.00 | .75 | | 7.93 | 8.00 | 25.64 | 24.00 |
| 44750 | Stand. Super Phos. of Lime 3-9-2 | Baltimore | 2.10 | 1.50 | 2.86 | 3.00 | 3.20 | 2.00 | 1.40 | | 8.43 | 9.00 | 19.73 | 19.50 |
| 45208 | Success Fertilizer | Bel Air | 1.60 | 1.00 | 2.13 | 2.00 | 2.08 | 2.00 | .75 | | 8.55 | 8.00 | 16.11 | 15.00 |
| 45160 | 3-6-6 Fertilizer | Baltimore | 2.40 | 1.50 | 2.99 | 3.00 | 6.04 | 6.00 | 1.70 | | 6.10 | 6.00 | 20.54 | 20.25 |
| | **A. A. C. Co. (Patapsco), Balto., Md.** | | | | | | | | | | | | | |
| 44742 | Acid Phosphate, H. G. | Baltimore | ... | .... | .... | .... | .... | .... | 1.38 | | 15.67 | 16.00 | 12.03 | 12.00 |
| 45194 | Big Chief Brand with Potash | Baltimore | .58 | .43 | 1.13 | 1.00 | 3.00 | 3.00 | 1.35 | | 9.25 | 9.00 | 13.70 | 12.75 |
| 45116 | Coon Brand Guano | Baltimore | .55 | .43 | 1.16 | 1.00 | 2.16 | 2.00 | .80 | | 9.20 | 9.00 | 13.03 | 12.00 |
| 45000 | Guano 2-8-2 | Baltimore | 1.50 | 1.30 | 2.15 | 2.00 | 2.08 | 2.00 | 1.40 | | 8.50 | 8.00 | 16.28 | 15.00 |
| 44718 | Plant Bed 10-5-2 | Baltimore | 8.00 | 6.10 | 9.55 | 10.00 | 2.08 | 2.00 | .65 | | 5.90 | 5.00 | 41.93 | 42.75 |
| | **A. A. C. Co. (Pollock), Balto., Md.** | | | | | | | | | | | | | |
| 45161 | Acid Phosphate, H. G. | Baltimore | ... | .... | .... | .... | .... | .... | 1.05 | | 16.15 | 16.00 | 12.32 | 12.00 |
| 44783 | Bull's Eye Guano | Baltimore | 1.40 | 1.00 | 2.06 | 2.00 | 2.04 | 2.00 | 1.50 | | 7.95 | 8.00 | 15.52 | 15.00 |
| 45162 | Corn, Wheat and Tomato 1-8-1 | Baltimore | .49 | .43 | 1.02 | 1.00 | 2.14 | 1.00 | .80 | | 8.00 | 8.00 | 11.60 | 10.50 |
| 45001 | Crop Invigorator 1-8-4 | Baltimore | .53 | .43 | 1.11 | 1.00 | 4.08 | 4.00 | .88 | | 7.65 | 8.00 | 13.13 | 12.75 |
| 45067 | Spec. Potato and Tobacco 2-8-4 | Baltimore | 1.50 | 1.00 | 2.12 | 2.00 | 4.16 | 4.00 | .55 | | 8.85 | 8.00 | 17.82 | 16.50 |
| 45049 | Spec. Wheat & Corn Fert. 1-8-2 | Baltimore | .52 | .43 | 1.08 | 1.00 | 2.00 | 2.00 | .80 | | 8.70 | 8.00 | 12.24 | 11.25 |
| | **A. A. C. Co. (Slingluff), Balto., Md.** | | | | | | | | | | | | | |
| 44703 | 10% Tobacco Plant Bed Fert. 10-5-2 | Baltimore | 8.70 | 6.10 | 10.16 | 10.00 | 2.20 | 2.00 | .50 | | 6.20 | 5.00 | 44.50 | 42.75 |
| | **A. A. C. Co. (Susquehanna), Balto., Md.** | | | | | | | | | | | | | |
| 45099 | Potato & Tobacco Phos. 2-8-3 | Baltimore | 1.40 | 1.00 | 2.01 | 2.00 | 4.24 | 3.00 | .80 | | 8.00 | 8.00 | 16.88 | 15.75 |
| | **A. A. C. Co. (J. E. Tygert), Balto., Md.** | | | | | | | | | | | | | |
| 45206 | Acid Phosphate 16% | Bel Air | ... | .... | .... | .... | .... | .... | .60 | | 16.20 | 16.00 | 12.27 | 12.00 |

| No. | Name and Address of Manufacturer and Name of Fertilizer. | Place of Sampling (and Sender's initials when not Sampled by the College Agent). | $H_2O$ Sol. AMMONIA. | | NITROGEN Calculated as AMMONIA. | | POTASH, $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **A. A. C. Co., (J. E. Tygert), Cont.** | | | | | | | | | | | | | |
| 45207 | Prolific Fertilizer ..... | Bel Air..... | **.48** | .... | **.99** | 1.00 | **1.07** | 1.00 | **1.25** | ..... | **8.75** | 8.00 | **$11.32** | $10.50 |
| | **A. A. C. Co. (Wooldridge), Balto., Md.** | | | | | | | | | | | | | |
| 45050 | Acid Phosphate H. G..... | Baltimore.... | ... | .... | .... | .... | .... | .... | **1.20** | ..... | **15.95** | 16.00 | **12.20** | 12.00 |
| 45163 | Chieftain Phosphate 2-8-2..... | Baltimore.... | **1.50** | 1.00 | **2.01** | 2.00 | **2.00** | 2.00 | **1.40** | ..... | **7.80** | 8.00 | **15.17** | 15.00 |
| 45117 | Common Sense Super Phosphate | Baltimore.... | **2.90** | 2.10 | **3.72** | 4.00 | .... | .... | **1.20** | ..... | **10.50** | 10.00 | **22.07** | 22.50 |
| 44759 | Fish Mixture No. 1..... | Baltimore.... | **.41** | .43 | **1.06** | 1.00 | **1.40** | 1.00 | **1.75** | ..... | **7.50** | 7.00 | **11.01** | 9.75 |
| 44784 | Golden Crown Truck Phos. 7-6-5 | Baltimore.... | **5.50** | 4.10 | **7.00** | 7.00 | **5.28** | 5.00 | **.80** | ..... | **6.10** | 6.00 | **34.95** | 34.50 |
| 45181 | Liberty Bell Potash..... | Baltimore.... | ... | .... | .... | .... | **3.16** | 3.00 | **.70** | ..... | **12.00** | 12.00 | **11.51** | 11.25 |
| 45100 | No. 2 Phosphate and Potash.... | Baltimore.... | ... | .... | .... | .... | **4.72** | 5.00 | **.70** | ..... | **8.30** | 8.00 | **9.91** | 9.75 |
| 44751 | Sovereign Trucker ..... | Baltimore.... | **4.20** | 2.90 | **5.23** | 5.00 | **5.12** | 5.00 | **1.00** | ..... | **7.00** | 7.00 | **28.90** | 27.75 |
| 44743 | Special Potato & Tobacco 2-10-2 | Baltimore.... | **2.60** | 1.00 | **3.33** | 2.00 | **3.08** | 2.00 | **1.28** | ..... | **8.07** | 10.00 | **21.11** | 16.50 |
| 45068 | Sweep Stakes 3-8-3..... | Baltimore.... | **2.10** | 1.50 | **2.69** | 3.00 | **3.32** | 3.00 | **.75** | ..... | **8.85** | 8.00 | **19.37** | 19.50 |
| 45051 | Triangle Brand 1-8-4..... | Baltimore.... | **.55** | .43 | **1.08** | 1.00 | **4.12** | 4.00 | **.80** | ..... | **8.90** | 8.00 | **13.98** | 12.75 |
| 45101 | Triumph Brand Phosphate 2-8-3 | Baltimore.... | **1.50** | 1.00 | **2.12** | 2.00 | **3.16** | 3.00 | **1.50** | ..... | **8.30** | 8.00 | **16.85** | 15.75 |
| | **A. A. C. Co. (Zell), Balto., Md.** | | | | | | | | | | | | | |
| 45209 | Ammoniated Super Phosphate.. | Pikesville ... | **1.70** | 1.00 | **2.32** | 2.00 | **2.24** | 2.00 | **1.15** | ..... | **8.65** | 8.00 | **17.10** | 15.00 |
| 45210 | Special Compound for Tobacco.. | Pikesville ... | **1.40** | 1.00 | **2.01** | 2.00 | **2.20** | 2.00 | **.95** | ..... | **8.35** | 8.00 | **15.64** | 15.00 |
| 45164 | Special Compound for Potatoes & Veg. | Baltimore.... | **1.97** | 1.50 | **2.89** | 3.00 | **3.56** | 4.00 | **1.20** | ..... | **7.80** | 8.00 | **19.60** | 20.25 |
| | **American Fert. Co., Balto., Md.** | | | | | | | | | | | | | |
| 44760 | Acid Phosphate 16% H. G..... | Baltimore.... | ... | .... | .... | .... | .... | .... | **1.05** | ..... | **16.45** | 16.00 | **12.55** | 12.00 |
| 45070 | Ammoniated Crop Compound 1-8-2.... | Baltimore.... | **.91** | .41 | **1.18** | 1.00 | **2.20** | 2.00 | **1.50** | ..... | **9.20** | 8.00 | **13.28** | 11.25 |
| 45052 | Best Potato Formula 4-8-6..... | Baltimore.... | **3.40** | 1.70 | **3.76** | 4.00 | **5.12** | 6.00 | **2.10** | ..... | **8.80** | 8.00 | **24.96** | 25.50 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45002 | Eagle Crop Grower 2-8-2 | Baltimore | 1.40 | .65 | 1.75 | 2.00 | 2.08 | 2.00 | 2.50 | ..... | 7.83 | 8.00 | 14.49 | 15.00 |
| 44731 | Early Truckers 5-6-5 | Baltimore | 4.50 | 2.50 | 5.02 | 5.00 | 5.00 | 5.00 | 1.43 | ..... | 5.72 | 6.00 | 27.16 | 27.00 |
| 44732 | Excelsior Guano 2-8-5 | Baltimore | 2.00 | .65 | 2.43 | 2.00 | 5.48 | 5.00 | 2.60 | ..... | 8.15 | 8.00 | 19.85 | 17.25 |
| 44761 | Fish and Bone Compound 2-8-3 | Baltimore | 1.60 | 1.00 | 2.17 | 2.00 | 3.18 | 3.00 | 3.10 | ..... | 8.10 | 8.00 | 17.22 | 15.75 |
| 45118 | Formula for Wheat and Corn | Baltimore | ... | .... | .... | .... | 5.24 | 5.00 | 1.70 | ..... | 10.10 | 10.00 | 11.85 | 11.25 |
| 44785 | Grain and Grass Grower | Baltimore | .71 | .49 | 1.14 | 1.00 | 3.40 | 3.00 | 2.47 | ..... | 9.06 | 9.00 | 14.12 | 12.75 |
| 45003 | Prize Guano 2-8-10 | Baltimore | 1.60 | .... | 2.32 | 2.00 | 8.58 | 10.00 | 1.60 | ..... | 8.10 | 8.00 | 21.54 | 21.00 |
| | **Armour Fertilizer Works, Balto., Md.** | | | | | | | | | | | | | |
| 44719 | Acid Phosphate 16% | Baltimore | ... | .... | .... | .... | .... | .... | .40 | ..... | 16.20 | 16.00 | 12.23 | 12.00 |
| 44720 | Big Crop 5-8-5 | Baltimore | 3.70 | 2.50 | 5.03 | 5.00 | 5.20 | 5.00 | .70 | ..... | 8.30 | 8.00 | 29.13 | 28.50 |
| 45102 | Big Crop 4-8-4 | Baltimore | 2.40 | 2.00 | 3.61 | 4.00 | 3.50 | 4.00 | 1.10 | ..... | 9.00 | 8.00 | 23.14 | 24.00 |
| 44745 | Big Crop 7-6-5 | Baltimore | 5.20 | 3.50 | 7.83 | 8.00 | 2.28 | 2.00 | .35 | ..... | 4.65 | 4.00 | 34.66 | 34.50 |
| 45054 | Big Crop 0-10-5 | Baltimore | ... | .... | .... | .... | 5.00 | 5.00 | .30 | ..... | 10.30 | 10.00 | 11.54 | 11.25 |
| 44752 | Big Crop 3-8-3 | Baltimore | 2.30 | 1.50 | 3.27 | 3.00 | 3.12 | 3.00 | 1.35 | ..... | 7.45 | 8.00 | 20.46 | 19.50 |
| 45053 | Big Crop 2-8-10 | Baltimore | 1.30 | 1.00 | 2.10 | 2.00 | 10.08 | 10.00 | .50 | ..... | 8.40 | 8.00 | 21.84 | 21.00 |
| 45018 | Big Crop 2-8-5 | Sykesville | 1.40 | 1.00 | 2.15 | 2.00 | 5.00 | 5.00 | .55 | ..... | 8.85 | 8.00 | 18.56 | 17.25 |
| 45182 | Big Crop 12-5 | Baltimore | ... | .... | .... | .... | 4.06 | 5.00 | 1.15 | ..... | 12.25 | 12.00 | 12.47 | 12.75 |
| 45119 | Crop Grower 1-8-2 | Baltimore | .57 | .50 | 1.29 | 1.00 | 2.32 | 2.00 | .95 | ..... | 7.95 | 8.00 | 12.73 | 11.25 |
| 45019 | Farmers' Choice 1-9-3 | Sykesville | .47 | .50 | 1.14 | 1.00 | 3.08 | 3.00 | 1.00 | ..... | 9.00 | 9.00 | 13.54 | 12.75 |
| 45020 | Grain Grower 2-8-2 | Sykesville | 1.50 | .50 | 2.42 | 2.00 | 2.70 | 2.00 | .85 | ..... | 8.35 | 8.00 | 17.54 | 15.00 |
| 45071 | Kainit | Baltimore | ... | .... | .... | .... | 13.72 | 12.00 | ..... | ..... | ..... | ..... | ..... | ..... |
| 45165 | Lime Phosphate | Baltimore | ... | .... | .... | .... | .... | .... | 1.95 | ..... | 12.25 | 13.00 | 9.58 | 9.75 |
| 45183 | Lime Phosphate | Baltimore | ... | .... | .... | .... | .... | .... | 1.50 | ..... | 10.97 | 13.00 | 8.53 | 9.75 |
| 44746 | Nitrate of Soda | Baltimore | ... | .... | 18.30 | 18.00 | .... | .... | ..... | ..... | ..... | ..... | ..... | ..... |
| 45103 | Phosphate and Potash Fertilizer | Baltimore | ... | .... | .... | .... | 2.28 | 2.00 | .25 | ..... | 10.25 | 10.00 | 9.45 | 9.00 |
| 45201 | Raw Bone Meal | Clinton | ... | .... | 3.66 | 4.50 | .... | .... | *24.10 | *21.50 | .... | .... | 28.19 | 29.78 |
| 45021 | Royal Ammoniated 1-8-4 | Sykesville | .42 | .50 | 1.19 | 1.00 | 4.32 | 4.00 | .95 | ..... | 8.15 | 8.00 | 14.00 | 12.75 |
| 45120 | Sheep Manure | Baltimore | .45 | .25 | 1.73 | 1.50 | 3.60 | 2.50 | .10 | ..... | 2.30 | 1.00 | 10.94 | 8.63 |
| 45022 | Wheat and Grass Grower 1-8-1 | Sykesville | .36 | .50 | 1.18 | 1.00 | 1.48 | 1.00 | .75 | ..... | 8.75 | 8.00 | 12.25 | 10.50 |
| 45166 | White's Special 2-8-5 | Baltimore | 1.40 | .... | 2.00 | 2.00 | 5.16 | 5.00 | .85 | ..... | 9.15 | 8.00 | 18.40 | 17.25 |
| | **Associated Chemical Co., Hagerstown, Md.** | | | | | | | | | | | | | |
| 45167 | Fine Bone Meal | Baltimore | ... | .... | 3.68 | 3.00 | .... | .... | *20.75 | *23.00 | .... | .... | 26.25 | 25.05 |
| 45211 | Kainit | Fallston | ... | .... | .... | .... | 16.28 | 14.00 | ..... | ..... | .... | .... | ..... | ..... |
| 45212 | Nitrate of Soda | Fallston | ... | .... | 13.36 | 18.20 | .... | .... | ..... | ..... | .... | .... | ..... | ..... |
| | **Baltimore Fertilizer Co., Balto., Md.** | | | | | | | | | | | | | |
| 45023 | Acid Phosphate 16% | Baltimore | ... | .... | .... | .... | .... | .... | .55 | ..... | 17.25 | 16.00 | 13.05 | 12.00 |
| 45121 | Honest Ammoniated Bone | Baltimore | 1.30 | .... | [illegible] | 2.00 | 1.76 | 2.00 | 1.05 | ..... | 8.25 | 8.00 | 14.28 | 15.00 |

* Total Phosphoric Acid.

| No. | Name and Address of Manufacturer and Name of Fertilizer. | Place of Sampling (and Sender's initials when not Sampled by the College Agent). | $H_2O$ Sol. AMMONIA. | | NITROGEN Calculated as AMMONIA. | | POTASH, $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Baltimore Fertilizer Co., Cont.** | | | | | | | | | | | | | |
| 45122 | Honest 1-9-3 | Baltimore | .61 | .... | 1.09 | 1.00 | 3.32 | 3.00 | 1.05 | ..... | 8.25 | 9.00 | $12.98 | $12.00 |
| 45123 | Honest 3-8-3 | Baltimore | 2.80 | .... | 3.32 | 3.00 | 3.96 | 3.00 | 1.00 | ..... | 7.85 | 8.00 | 21.51 | 19.50 |
| 45168 | Honest 2-8-4 | Baltimore | 1.50 | .... | 2.00 | 2.00 | 3.84 | 4.00 | 1.40 | ..... | 7.70 | 8.00 | 16.44 | 16.50 |
| 45124 | Honest Trucker | Baltimore | 3.40 | .50 | 3.71 | 5.00 | 5.20 | 5.00 | 1.10 | ..... | 6.90 | 6.00 | 23.21 | 27.00 |
| 44747 | Honest 10% Tobacco Bed Mixture | Baltimore | 7.10 | .... | 8.86 | 10.00 | .... | .... | 1.80 | ..... | 5.75 | 4.00 | 37.90 | 40.50 |
| 45169 | Old Honest | Baltimore | .42 | .... | .78 | .50 | 2.04 | 2.00 | .90 | ..... | 8.70 | 8.00 | 11.17 | 9.38 |
| 45170 | Sulphate of Potash | Baltimore | ... | .... | .... | .... | 49.70 | 48.00 | ..... | ..... | .... | .... | ..... | ..... |
| | **Baltimore Pulverizing Co., Balto., Md.** | | | | | | | | | | | | | |
| 44748 | Acme Sweet Potato 2-6-6 | Baltimore | 2.10 | .... | 2.70 | 2.00 | 6.00 | 6.00 | 1.40 | ..... | 6.30 | 6.00 | 19.64 | 16.50 |
| 45004 | Ammoniated Fish Guano | Baltimore | 2.00 | .... | 3.38 | 3.00 | .... | .... | 1.35 | ..... | 8.00 | 8.00 | 18.95 | 17.25 |
| 45072 | Corn and Grain | Baltimore | ... | .... | .... | .... | 4.00 | 4.00 | 1.63 | ..... | 11.22 | 12.00 | 11.75 | 12.00 |
| 45073 | Harvest King 1-8-2 | Baltimore | 1.30 | .... | 1.74 | 1.00 | 2.76 | 2.00 | 1.00 | ..... | 9.00 | 10.00 | 14.55 | 12.75 |
| 45074 | Ideal Fertilizer 2-8-5 | Baltimore | 1.70 | .... | 2.45 | 2.00 | 6.52 | 5.00 | 2.78 | ..... | 5.47 | 8.00 | 18.74 | 17.25 |
| 45184 | Market Garden Fertilizer 3-8-4 | Baltimore | 2.30 | .... | 3.04 | 3.00 | 4.74 | 4.00 | 2.63 | ..... | 7.32 | 8.00 | 20.98 | 20.25 |
| 44744 | Potato Climax | Baltimore | 3.50 | .... | 4.46 | 4.00 | 5.44 | 5.00 | .85 | ..... | 8.45 | 8.00 | 27.32 | 24.75 |
| 44763 | Royal Compound | Baltimore | 2.97 | .... | 3.60 | 2.00 | 2.32 | 2.00 | .70 | ..... | 8.15 | 8.00 | 21.49 | 15.00 |
| 45076 | Special Potato Mixture | Baltimore | 2.40 | .... | 3.04 | 3.00 | 4.58 | 4.00 | 1.28 | ..... | 7.57 | 8.00 | 20.78 | 20.25 |
| 44764 | Spec. Strawberry Mixture 4-7-1 | Baltimore | 3.30 | .... | 4.04 | 4.00 | 1.40 | 1.00 | .65 | ..... | 7.10 | 7.00 | 21.66 | 21.00 |
| 45077 | Special Tobacco | Baltimore | 2.30 | .... | 2.89 | 3.00 | 4.40 | 3.00 | 1.65 | ..... | 7.60 | 8.00 | 20.17 | 19.50 |
| 45185 | Spring and Fall Mixture | Baltimore | ... | .... | .... | .... | 2.16 | 2.00 | .85 | ..... | 8.75 | 8.00 | 8.35 | 7.50 |
| 44727 | Steven's Strawberry Mixture | Baltimore | 3.30 | 3.98 | 4.04 | 4.00 | 1.48 | 1.00 | 1.40 | ..... | 7.15 | 7.00 | 21.90 | 21.00 |
| 45040 | Truck Guano 7% 7-6-5 | Canton | 4.10 | .... | 4.99 | 7.00 | 4.78 | 5.00 | 1.15 | ..... | 7.75 | 6.00 | 28.34 | 34.50 |
| 44765 | Trucker's Choice | Baltimore | 2.20 | .... | 3.14 | 3.00 | 2.32 | 2.00 | 1.20 | ..... | 7.88 | 8.00 | 19.67 | 19.50 |
| 44766 | Willoughby's Mixture | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 44765 | Trucker's Choice | Baltimore | 2.20 | .... | 3.14 | 3.00 | 2.32 | 2.00 | 1.20 | ..... | 7.88 | 8.00 | 19.67 | 18.75 |
| 44766 | Willoughby's Mixture | Baltimore | 4.10 | .... | 4.49 | 4.00 | 7.88 | 7.00 | .55 | ..... | 8.40 | 8.00 | 29.16 | 26.25 |
| | **Barrett & Co., New York, N. Y.** | | | | | | | | | | | | | |
| 45125 | Arcadian Sulphate of Ammonia | Baltimore | ... | .... | 25.54 | 25.25 | .... | .... | ..... | ..... | .... | .... | ..... | ..... |
| | **Baugh & Sons Co., Baltimore, Md.** | | | | | | | | | | | | | |
| 45005 | Acid Phosphate 16% | Baltimore | ... | .... | .... | .... | .... | .... | 1.05 | ..... | 16.55 | 16.00 | 12.62 | 12.00 |
| 45104 | Accomac Sweet Potato Guano 3-7-7 | Baltimore | 2.40 | 1.20 | 3.14 | 3.00 | 6.62 | 7.00 | 1.00 | ..... | 8.50 | 7.00 | 23.33 | 21.75 |
| 45026 | Commercial Superphos. 2-8-10 | Baltimore | 1.40 | .56 | 2.18 | 2.00 | 11.68 | 10.00 | 1.05 | ..... | 8.25 | 8.00 | 23.34 | 21.00 |
| 44770 | Complete Animal Base Fert. 2-8-5 | Baltimore | 1.40 | .61 | 2.34 | 2.00 | 5.00 | 5.00 | 1.30 | ..... | 8.40 | 8.00 | 19.09 | 17.25 |
| 45006 | Corn & Oats Fertilizer 2-12-2 | Baltimore | 1.50 | .... | 2.13 | 2.00 | 2.32 | 2.00 | .98 | ..... | 11.67 | 12.00 | 18.68 | 18.00 |
| 45171 | Durable Plant Food 1-8-3 | Baltimore | .89 | .... | 1.13 | 1.00 | 3.34 | 3.00 | .85 | ..... | 8.15 | 8.00 | 13.03 | 12.00 |
| 45055 | Excelsior Guano 1-8-4 | Baltimore | .53 | .... | 1.21 | 1.00 | 4.40 | 4.00 | 1.30 | ..... | 8.30 | 8.00 | 14.33 | 12.75 |
| 44762 | Fish Bone & Potash 4-8-4 | Baltimore | 3.00 | 1.20 | 3.83 | 4.00 | 4.38 | 4.00 | 1.25 | ..... | 8.55 | 8.00 | 24.31 | 24.00 |
| 45007 | Fish Mixture | Baltimore | 1.40 | .56 | 2.07 | 2.00 | 2.20 | 2.00 | .98 | ..... | 8.77 | 8.50 | 16.19 | 15.38 |
| 44736 | 4-8-5 | Crownsville | 3.60 | 1.00 | 4.35 | 4.00 | 5.44 | 5.00 | 1.10 | ..... | 8.70 | 8.00 | 27.14 | 24.75 |
| 45008 | General Crop Grower 1-8-1 | Baltimore | .43 | .... | 1.20 | 1.00 | 1.40 | 1.00 | 1.20 | ..... | 8.20 | 8.00 | 11.94 | 10.50 |
| 44704 | Grand Rapid Guano 3-8-3 | Baltimore | 2.20 | 3.00 | 2.99 | 3.00 | 3.08 | 3.00 | .65 | ..... | 8.95 | 8.00 | 20.36 | 19.50 |
| 45126 | H. G. Tankage | Baltimore | ... | .... | 8.20 | 8.00 | .... | .... | *12.20 | *5.00 | .... | .... | 38.07 | 33.00 |
| 45127 | Kainit | Baltimore | ... | .... | .... | .... | 13.20 | 12.40 | ..... | ..... | .... | .... | ..... | ..... |
| 45172 | Lime & Phosphate 13% | Baltimore | ... | .... | .... | .... | .... | .... | 1.30 | ..... | 16.30 | 13.00 | 12.49 | 9.75 |
| 45078 | Muriate of Potash | Baltimore | ... | .... | .... | .... | 50.80 | 48.0 | ..... | ..... | .... | .... | ..... | ..... |
| 44705 | New Process 10% Guano 10-5-0 | Baltimore | 8.60 | 1.20 | 9.37 | 10.00 | .... | .... | 1.10 | ..... | 5.90 | 5.00 | 39.79 | 41.25 |
| 45056 | Nitrate of Soda | Baltimore | ... | .... | 19.28 | 18.50 | .... | .... | ..... | ..... | .... | .... | ..... | ..... |
| 44733 | Peruvian Guano Substitute 5-6-5 | Baltimore | 4.50 | 1.20 | 5.19 | 5.00 | 5.28 | 5.00 | .88 | ..... | 6.20 | 6.00 | 28.25 | 27.00 |
| 45186 | Phosphate and Potash | Baltimore | ... | .... | .... | .... | 5.08 | 5.00 | .70 | ..... | 12.70 | 12.00 | 13.48 | 12.75 |
| 44722 | Plant Bed Guano 10-3 | Baltimore | 8.00 | 1.20 | 8.75 | 10.00 | .... | .... | .55 | ..... | 5.05 | 3.00 | 36.71 | 39.75 |
| 44723 | Potato and Truck 4-8-6 | Baltimore | 3.50 | 1.20 | 4.30 | 4.00 | 6.32 | 6.00 | .90 | ..... | 8.30 | 8.00 | 27.28 | 25.50 |
| 44767 | Pure Bone & M. of P. Manure 2½-20-5 | Baltimore | .79 | .... | 2.87 | 2.50 | 5.84 | 5.00 | *18.28 | *20.00 | .... | .... | 27.11 | 25.13 |
| 44768 | Raw Bone Meal | Baltimore | ... | .... | 5.02 | 4.50 | .... | .... | *21.05 | *21.50 | .... | .... | 31.46 | 29.78 |
| 45128 | Sol. Alkaline Super Phosphate | Baltimore | ... | .... | .... | .... | 2.70 | 2.00 | .80 | ..... | 10.30 | 10.00 | 9.92 | 9.00 |
| 45027 | Special Potato Manure 2-8-5 | Baltimore | 2.20 | .56 | 2.84 | 2.00 | 3.30 | 5.00 | .75 | ..... | 8.75 | 8.00 | 19.84 | 17.25 |
| 44706 | Special Tobacco Manure 4-8-4 | Baltimore | 3.70 | 1.20 | 4.48 | 4.00 | 3.78 | 4.00 | .55 | ..... | 8.95 | 8.00 | 26.46 | 25.00 |
| 45024 | Sulphate of Ammonia | Baltimore | ... | .... | 25.95 | 25.00 | .... | .... | ..... | ..... | .... | .... | ..... | ..... |
| 45129 | Tomato Compound | Baltimore | 1.40 | .61 | 2.12 | 2.00 | 2.12 | 2.00 | 1.02 | ..... | 8.43 | 8.50 | 16.06 | 15.38 |
| 44724 | 7% Potato Guano | Baltimore | 6.30 | 1.20 | 7.13 | 7.00 | 5.24 | 5.00 | .80 | ..... | 6.45 | 6.00 | 35.67 | 34.50 |
| 45057 | Yucatan Tobacco Guano 3-8-3 | Baltimore | 2.30 | 1.20 | 2.93 | 3.00 | 3.04 | 3.00 | .75 | ..... | 8.35 | 8.00 | 19.68 | 19.50 |
| | **Braun Fertilizer Co., Balto., Md.** | | | | | | | | | | | | | |
| 44916 | H. G. Fertilizer 2-8-5 | Owings Mills | .76 | .... | 2.55 | 2.00 | 5.02 | 5.00 | 2.28 | ..... | 10.02 | 8.00 | 21.31 | 17.25 |

* Total Phosphoric Acid.

| No. | Name and Address of Manufacturer and Name of Fertilizer. | Place of Sampling (and Sender's initials when not Sampled by the College Agent). | $H_2O$ Sol. AMMONIA. | | NITROGEN Calculated as AMMONIA. | | POTASH, $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Bryant Fertilizer Co., Alexandria,** | **Va.** | | | | | | | | | | | | |
| 45079 | Acid Phosphate | Baltimore | ... | .... | .... | .... | .... | .... | .85 | .... | 16.85 | 16.00 | $12.81 | $12.00 |
| 45080 | Planters Pride 5-8-5 | Baltimore | 4.60 | 2.50 | 5.00 | 5.00 | 5.12 | 5.00 | 2.15 | ..... | 7.90 | 8.00 | 28.95 | 28.50 |
| 44769 | Victor Tobacco Fertilizer 3-8-3 | Baltimore | 1.70 | 1.50 | 2.15 | 3.00 | 5.08 | 3.00 | 2.35 | ..... | 8.35 | 8.00 | 18.60 | 19.50 |
| | **Herbert Bryant's Son, Alexandria,** | **Va.** | | | | | | | | | | | | |
| 45214 | Acid Phosphate H. G. | Gaithersburg | ... | .... | .... | .... | .... | .... | .25 | ..... | 16.65 | 16.00 | 12.54 | 12.00 |
| 45215 | Economy Comp. of Lime & Phos. | Gaithersburg | ... | .... | .... | .... | .... | .... | 1.95 | ..... | 10.60 | 12.00 | 8.34 | 9.00 |
| 45216 | Empress Ammoniated Bone | Gaithersburg | 1.20 | .61 | 2.16 | 1.00 | 1.72 | 1.00 | .70 | ..... | 11.30 | 8.00 | 18.01 | 10.50 |
| 45217 | Genuine Fish, Bone Potash | Gaithersburg | .87 | .61 | 2.05 | 2.00 | 2.00 | 2.00 | 1.20 | ..... | 8.80 | 9.00 | 16.03 | 15.75 |
| 45218 | H. G. Truck & Potato Compound | Gaithersburg | 2.10 | .61 | 3.00 | 3.00 | 5.48 | 5.00 | .45 | ..... | 8.65 | 8.00 | 21.94 | 21.00 |
| | **Central Chemical Co., Hagerstown,** | **Md.** | | | | | | | | | | | | |
| 45173 | Gro-all Acid Phosphate 16% | Baltimore | ... | .... | .... | .... | .... | .... | .60 | ..... | 16.40 | 16.00 | 12.42 | 12.00 |
| 45202 | Gro-all Canners Special | Frederick | 1.10 | .... | 1.65 | 2.00 | 4.66 | 5.00 | .30 | ..... | 8.90 | 8.00 | 16.43 | 17.25 |
| 45203 | Go-all Crown Jewel | Frederick | .53 | .... | .99 | 1.00 | 3.02 | 3.00 | .50 | ..... | 9.95 | 9.00 | 13.54 | 12.75 |
| 45204 | Gro-all Empire | Frederick | 1.70 | .... | 2.18 | 2.00 | 7.20 | 10.00 | .80 | ..... | 9.20 | 8.00 | 20.64 | 21.00 |
| 45130 | Gro-all Excelsior 2-8-4 | Baltimore | 1.50 | .61 | 1.86 | 2.00 | 3.48 | 4.00 | 1.20 | ..... | 8.90 | 8.00 | 16.51 | 16.50 |
| 45131 | Gro-all Fish & Potash 1¼-8-2 | Baltimore | 1.30 | .61 | 1.66 | 1.25 | 1.56 | 2.00 | .90 | ..... | 9.50 | 8.00 | 14.71 | 12.19 |
| 45205 | Gro-all Golden Sheaf | Frederick | .43 | .... | 1.01 | 1.00 | 1.04 | 1.00 | .85 | ..... | 8.75 | 8.00 | 10.39 | 10.50 |
| 45132 | Gro-all Valley Mixture 2-8-2 | Baltimore | 1.40 | .61 | 1.82 | 2.00 | 2.36 | 2.00 | 1.00 | ..... | 9.30 | 8.00 | 15.78 | 15.00 |
| 45058 | Nitrate of Soda | Baltimore | ... | .... | 18.58 | 18.20 | .... | .... | ..... | ..... | | | | |
| 45059 | Potato Special 4-8-7 | Baltimore | 3.30 | .61 | 4.20 | 4.00 | 6.10 | 7.00 | .50 | ..... | 9.50 | 8.00 | 27.56 | 26.25 |
| | **Devilbiss Bros., New Windsor, Md.** | | | | | | | | | | | | | |
| 45199 | South Carolina Acid Phos. Rock | New Windsor | ... | .... | .... | .... | .... | .... | .15 | ..... | 17.25 | 16.00 | 12.97 | 12.00 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45199 | South Carolina Acid Phos. Rock | New Windsor | ... | ... | ... | ... | ... | ... | .15 | ..... | 17.25 | 16.00 | 12.97 | 12.00 |
| 45200 | Butcher House Phosphate | New Windsor | .34 | .30 | 1.09 | 1.00 | 4.00 | 4.00 | 3.45 | 1.00 | 11.85 | 10.00 | 16.67 | 14.45 |
| | **Dorchester Fertilizer & Lime Co., Cambridge, Md.** | | | | | | | | | | | | | |
| 44708 | 5-6-7 | Baltimore | 4.30 | 3.00 | 5.02 | 5.00 | 6.50 | 7.00 | .60 | ..... | 7.30 | 6.00 | 29.31 | 28.50 |
| 45195 | 4-8-4 | Baltimore | 2.70 | 3.00 | 3.36 | 4.00 | 3.52 | 4.00 | 1.15 | ..... | 6.65 | 8.00 | 20.46 | 24.00 |
| 44709 | 4-7-1 | Baltimore | 3.30 | 3.00 | 4.03 | 4.00 | 1.44 | 1.00 | .80 | ..... | 7.80 | 7.00 | 22.20 | 21.00 |
| 45198 | Fish Mixture 2-8-2 | Baltimore | 1.60 | 1.00 | 2.01 | 2.00 | 2.40 | 2.00 | 1.49 | ..... | 8.20 | 8.00 | 15.77 | 15.00 |
| 44710 | Pea Special | Baltimore | 1.40 | 1.00 | 2.12 | 2.00 | 4.28 | 4.00 | .75 | ..... | 8.85 | 8.00 | 17.95 | 16.50 |
| 44711 | 7-6-5 | Baltimore | 5.40 | 5.00 | 6.47 | 7.00 | 5.16 | 5.00 | .65 | ..... | 7.58 | 6.00 | 33.96 | 34.50 |
| 44734 | 3-8-10 | Baltimore | 2.00 | .... | 2.72 | 3.00 | 8.86 | 10.00 | 1.50 | ..... | 8.05 | 8.00 | 23.19 | 24.75 |
| 44786 | Tomato Special | Baltimore | 1.60 | 1.00 | 2.20 | 2.00 | 4.32 | 4.00 | 1.40 | ..... | 8.00 | 8.00 | 17.77 | 16.50 |
| | **Dumont Fertilizer Co., Baltimore, Md.** | | | | | | | | | | | | | |
| 44787 | Acid Phosphate 16% | Baltimore | ... | .... | .... | .... | .... | .... | 1.05 | ..... | 17.40 | 16.00 | 13.26 | 12.00 |
| 44725 | 5-8-5 | Baltimore | 4.30 | 2.90 | 4.49 | 5.00 | 6.54 | 5.00 | 1.03 | ..... | 7.55 | 8.00 | 27.52 | 28.50 |
| 45081 | 1-8-5 | Baltimore | .24 | .83 | 1.16 | 1.00 | 7.22 | 5.00 | 1.10 | ..... | 8.30 | 8.00 | 16.22 | 13.50 |
| 45028 | 2-8-5 | Baltimore | 2.50 | .... | 2.91 | 2.00 | 4.18 | 5.00 | .78 | ..... | 7.32 | 8.00 | 19.70 | 17.25 |
| 44788 | 2-12-4 | Baltimore | 2.20 | 2.60 | 2.70 | 2.00 | 4.40 | 4.00 | .83 | ..... | 10.47 | 12.00 | 21.45 | 19.50 |
| 45187 | 12-5 | Baltimore | ... | .... | .... | .... | 5.04 | 5.00 | 1.20 | ..... | 12.20 | 12.00 | 13.17 | 12.75 |
| | **Eastern States Farmers' Ex., Springfield, Mass.** | | | | | | | | | | | | | |
| 45009 | Mixed Fertilizer 4-8-4 | Baltimore | 3.50 | .... | 4.19 | 4.00 | 4.20 | 4.00 | 1.55 | ..... | 7.55 | 8.00 | 24.83 | 24.00 |
| 45010 | Mixed Fertilizer 3-10-6 | Baltimore | 2.70 | .... | 3.14 | 3.00 | 8.10 | 6.00 | 1.55 | ..... | 9.85 | 10.00 | 25.56 | 23.25 |
| 45012 | Nitrate of Soda | Baltimore | ... | .... | 18.59 | 18.00 | .... | .... | ..... | ..... | .... | .... | ..... | ..... |
| 45011 | No Filler Fertilizer 5-8-7 | Baltimore | 4.80 | .... | 5.46 | 5.00 | 7.32 | 7.00 | .90 | ..... | 8.10 | 8.00 | 32.23 | 30.00 |
| | **Edelen Bros., Baltimore, Md.** | | | | | | | | | | | | | |
| 45105 | H. G. Tobacco Guano | Baltimore | 2.20 | .... | 2.90 | 3.00 | 3.00 | 3.00 | 1.18 | ..... | 7.77 | 8.00 | 19.20 | 19.50 |
| 44707 | Special Tobacco Bed Fertilizer | Baltimore | 7.00 | 3.30 | 9.42 | 10.00 | .... | .... | .25 | ..... | 5.55 | 4.00 | 39.54 | 40.50 |
| 45106 | Wheat and Grain Mixture | Baltimore | .65 | .... | 1.13 | 1.00 | 1.16 | 1.00 | 1.35 | ..... | 8.05 | 8.00 | 11.42 | 10.50 |
| | **Farmers & Planters Co., Salisbury, Md.** | | | | | | | | | | | | | |
| 45142 | Acid Phosphate H. G. | Salisbury | ... | .... | .... | .... | .... | .... | .25 | ..... | 14.00 | 16.00 | 10.55 | 12.00 |
| 45143 | Early Trucker | Salisbury | 2.60 | 3.30 | 2.96 | 4.00 | 2.50 | 4.00 | .85 | ..... | 9.75 | 8.00 | 20.46 | 24.00 |
| 45144 | Fish Mixture | Salisbury | 1.30 | 1.50 | 1.72 | 2.00 | 2.04 | 2.00 | 1.20 | ..... | 10.40 | 8.00 | 16.02 | 15.00 |
| 45145 | Peerless | Salisbury | .45 | .... | .65 | .50 | 1.76 | 2.00 | 1.35 | ..... | 8.45 | 8.00 | 11.37 | 9.38 |
| 45146 | Special Fish Mixture | Salisbury | 1.30 | 1.50 | 1.90 | 2.00 | 4.04 | 5.00 | 1.45 | ..... | 8.25 | 8.00 | 16.64 | 17.25 |
| 45147 | Sweet Potato Special | Salisbury | 2.10 | 2.10 | 2.55 | 3.00 | 3.98 | 7.00 | .35 | ..... | 10.10 | 8.00 | 20.20 | 22.50 |
| 45148 | Truckers' Mixture | Salisbury | 2.50 | 2.10 | 3.14 | 3.00 | 2.66 | 4.00 | .80 | ..... | 8.00 | 8.00 | 19.94 | 20.25 |
| | **Griffith & Boyd Co., Baltimore, Md.** | | | | | | | | | | | | | |
| 44729 | Acid Phosphate 16% | Baltimore | ... | .... | .... | .... | .... | .... | .90 | ..... | 15.30 | 16.00 | 11.66 | 12.00 |
| 44735 | Accomac Trucker 5-6-5 | Baltimore | 4.00 | 1.80 | 5.43 | 5.00 | 5.28 | 5.00 | 1.45 | ..... | 6.30 | 6.00 | 29.34 | 27.00 |

| No. | Name and Address of Manufacturer and Name of Fertilizer. | Place of Sampling (and Sender's initials when not Sampled by the College Agent). | $H_2O$ Sol. AMMONIA. | | NITROGEN Calculated as AMMONIA. | | POTASH $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Griffith & Boyd Co., Cont.** | | | | | | | | | | | | | |
| 44753 | Fish, Blood & Potash 1¾-7-2... | Baltimore.... | .96 | .37 | 2.04 | 1.75 | 2.16 | 2.00 | 1.35 | ..... | 7.25 | 7.00 | $14.98 | $13.31 |
| 45031 | Fish & Potash Guano 1¾-7-3.. | Secretary ... | .91 | .39 | 1.76 | 1.75 | 3.40 | 3.00 | .80 | ..... | 7.75 | 7.00 | 15.12 | 14.06 |
| 45060 | Gilt Edge Crop Guano 2-8-10... | Baltimore.... | .95 | .49 | 2.13 | 2.00 | 10.52 | 10.00 | .60 | ..... | 8.60 | 8.00 | 22.45 | 21.00 |
| 45133 | Kainit ..... | Baltimore.... | ... | .... | .... | .... | 14.20 | 12.40 | ..... | ..... | .... | .... | ..... | ..... |
| 44730 | 1-8-6 Farmers' Potato Manure. | Baltimore.... | .78 | .31 | 1.36 | 1.00 | 6.28 | 6.00 | 1.30 | ..... | 8.20 | 8.00 | 16.22 | 14.25 |
| 45139 | Muriate of Potash 50%..... | Baltimore.... | ... | .... | .... | .... | 49.80 | 50.00 | ..... | ..... | .... | .... | ..... | ..... |
| 45061 | Nitrate of Soda..... | Baltimore.... | ... | .... | 19.15 | 18.00 | .... | .... | ..... | ..... | .... | .... | ..... | ..... |
| 44754 | Nitro Crop Feeder 8-4-2..... | Baltimore.... | 7.20 | 3.70 | 7.83 | 8.00 | 2.28 | 2.00 | .35 | ..... | 4.65 | 4.00 | 34.66 | 34.50 |
| 44755 | Peerless Fertilizer ½-8-2..... | Baltimore.... | .40 | .12 | 1.22 | .50 | 2.80 | 2.00 | .80 | ..... | 8.20 | 8.00 | 12.99 | 9.38 |
| 44756 | Potato Guano 7% 7-6-5..... | Baltimore.... | 4.80 | 7.00 | 6.42 | 7.00 | 5.10 | 5.00 | .95 | ..... | 7.85 | 6.00 | 33.99 | 34.50 |
| 45135 | Royal Potato Guano 1-8-4..... | Baltimore.... | .74 | .24 | 1.13 | 1.00 | 4.00 | 4.00 | .50 | ..... | 8.90 | 8.00 | 14.02 | 12.75 |
| 45032 | Special Formula 2-10-4..... | Secretary ... | 1.50 | .49 | 2.10 | 2.00 | 4.16 | 4.00 | .50 | ..... | 10.50 | 10.00 | 18.98 | 18.00 |
| 45033 | Special Guano 2-8-5..... | Secretary ... | 1.20 | .49 | 2.01 | 2.00 | 5.64 | 5.00 | .45 | ..... | 8.10 | 8.00 | 17.94 | 17.25 |
| 45136 | Spring Crop Grower 2-6½-4½.. | Baltimore.... | 1.10 | .49 | 2.17 | 2.00 | 4.52 | 4.50 | .90 | ..... | 7.60 | 6.50 | 17.41 | 15.85 |
| 45034 | Stable Manure Sub. 3½-5¼-4.. | Secretary ... | 2.50 | .99 | 3.58 | 3.50 | 4.00 | 4.00 | .35 | ..... | 5.95 | 5.25 | 20.96 | 20.07 |
| 45137 | Standard Guano 2-12-2..... | Baltimore.... | 1.50 | .49 | 2.13 | 2.00 | 4.22 | 2.00 | .50 | ..... | 12.50 | 12.00 | 20.64 | 18.00 |
| 45035 | Truckers' Favorite 3-8-6..... | Secretary ... | 2.70 | .60 | 3.61 | 3.00 | 7.06 | 6.00 | .70 | ..... | 8.40 | 8.00 | 25.28 | 21.75 |
| 45138 | XX Potash Manure 0-10-5..... | Baltimore.... | ... | .... | .... | .... | 5.24 | 5.00 | .20 | ..... | 10.20 | 10.00 | 11.62 | 11.25 |
| | **Griffith & Turner Co., Balto., Md.** | | | | | | | | | | | | | |
| 44757 | Special Potato Guano 1-8-4.... | Baltimore.... | 1.10 | .24 | 1.78 | 1.00 | 5.00 | 4.00 | .85 | ..... | 8.55 | 8.00 | 17.01 | 12.75 |
| | **Hampstead Fert. Co., Hampstead, Md.** | | | | | | | | | | | | | |
| 45213 | 1-8-4 ..... | Hampstead .. | .63 | .... | 1.02 | 1.00 | 4.68 | 4.00 | .25 | ..... | 8.35 | 8.00 | 13.65 | 12.75 |
| | **Horsey Roe & Co., Greensboro, Md.** | | | | | | | | | | | | | |
| 45036 | Acid Phosphate 16% | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Horsey Roe & Co., Greensboro, Md.** | | | | | | | | | | | | | | |
| 45036 | Acid Phosphate 16% | Greensboro .. | ... | .... | .... | .... | .... | .... | .60 | ..... | 17.20 | 16.00 | 13.02 | 12.00 |
| 45037 | Crop Grower 1-8-4 | Greensboro .. | .54 | .50 | 1.27 | 1.00 | 4.08 | 4.00 | 1.35 | ..... | 8.80 | 8.00 | 14.69 | 12.75 |
| 45039 | 3-8-3 | Greensboro .. | 1.90 | 2.00 | 3.07 | 3.00 | 3.00 | 3.00 | 2.20 | ..... | 7.85 | 8.00 | 20.09 | 19.50 |
| 45038 | 2-8-5 | Greensboro .. | 1.40 | 1.30 | 2.08 | 2.00 | 5.08 | 5.00 | 1.55 | ..... | 8.15 | 8.00 | 18.03 | 17.25 |
| | **Hubbard Fertilizer Co., Baltimore, Md.** | | | | | | | | | | | | | |
| 44771 | Climax Phosphate 1-7-4 | Baltimore.... | 1.20 | .... | 1.79 | 1.00 | 3.30 | 4.00 | 1.90 | ..... | 9.00 | 7.00 | 16.32 | 12.00 |
| 44726 | 5% Royal Seal 5-6-5 | Baltimore.... | 4.40 | 2.40 | 5.20 | 5.00 | 5.54 | 5.00 | 1.85 | ..... | 6.25 | 6.00 | 28.72 | 27.00 |
| 44772 | Jersey Trucker 2-8-10 | Baltimore.... | 1.80 | .... | 2.27 | 2.00 | 10.32 | 10.00 | 1.55 | ..... | 8.25 | 8.00 | 22.75 | 21.00 |
| 45134 | Kainit | Baltimore.... | ... | .... | .... | .... | 14.32 | 12.40 | ..... | ..... | ..... | ..... | ..... | ..... |
| 45041 | Money Maker Fertilizer 2-8-5 | Baltimore.... | 1.80 | .... | 2.10 | 2.00 | 5.90 | 5.00 | 1.65 | ..... | 8.25 | 8.00 | 18.83 | 17.25 |
| 44773 | Nitrate of Soda | Baltimore.... | ... | .... | 18.24 | 18.00 | .... | .... | ..... | ..... | .... | .... | ..... | ..... |
| | **M. P. Hubbard & Co., Baltimore, Md.** | | | | | | | | | | | | | |
| 45082 | Acme | Baltimore.... | .36 | .82 | .99 | 1.00 | 4.40 | 4.00 | .90 | ..... | 7.80 | 8.00 | 13.04 | 12.75 |
| 45013 | Kainit | Baltimore.... | ... | .... | .... | .... | 15.64 | 12.00 | ..... | ..... | .... | .... | ..... | ..... |
| 45014 | Maryland Special | Baltimore.... | 3.60 | 2.10 | 5.24 | 5.00 | 5.36 | 5.00 | .40 | ..... | 7.90 | 7.00 | 29.68 | 27.75 |
| 45083 | Special Potato & Tomato | Baltimore.... | 1.20 | .50 | 2.06 | 2.00 | 5.56 | 5.00 | .75 | ..... | 7.35 | 7.00 | 17.56 | 16.50 |
| | **Jarecki Chemical Co., Baltimore, Md.** | | | | | | | | | | | | | |
| 45030 | H. G. Potato 2-8-10 | Baltimore.... | 1.20 | 1.00 | 2.03 | 2.00 | 10.16 | 10.00 | .85 | ..... | 8.05 | 8.00 | 21.44 | 21.00 |
| | **Lancaster Chemical Co., Lancaster, Pa.** | | | | | | | | | | | | | |
| 45586 | General Crop Special | Rising Sun... | 1.70 | .... | 2.10 | 2.00 | 2.08 | 2.00 | 2.35 | ..... | 9.56 | 12.00 | 17.08 | 18.00 |
| 45587 | Wheat Special 2-8-2 | Rising Sun... | 1.60 | .... | 2.12 | 2.00 | 2.86 | 2.00 | 1.25 | ..... | 8.35 | 8.00 | 16.61 | 15.00 |
| | **Maryland Milling & Supply Co., Sykesville, Md.** | | | | | | | | | | | | | |
| 45633 | Acid Phosphate 16% | Sykesville ... | ... | .... | .... | .... | .... | .... | .30 | ..... | 18.10 | 16.00 | 13.64 | 12.00 |
| 45634 | H. G. 10-5 Fert. Phos. & Potash | Sykesville ... | ... | .... | .... | .... | 8.01 | 5.00 | .10 | ..... | 10.40 | 10.00 | 13.83 | 11.25 |
| | **Massey & Kilbourne, Chestertown, Md.** | | | | | | | | | | | | | |
| 45588 | Acid Phosphate 16% | Chestertown.. | ... | .... | .... | .... | .... | .... | .25 | ..... | 17.55 | 16.00 | 13.21 | 12.00 |
| 45589 | 10-5 Superphosphate | Chestertown.. | ... | .... | .... | .... | 4.32 | 5.00 | 1.00 | ..... | 11.80 | 10.00 | 12.29 | 11.25 |
| 45590 | Trustworthy Super Phosphate | Chestertown.. | 1.40 | .... | 2.12 | 2.00 | 4.64 | 5.00 | 1.40 | ..... | 8.80 | 8.00 | 18.31 | 17.25 |
| | **Medford Fertilizer Works, Medford, Md.** | | | | | | | | | | | | | |
| 45627 | No. 2 Phosphate | Medford .... | .14 | .... | .99 | 1.00 | 5.23 | 1.00 | 1.70 | ..... | 11.15 | 8.00 | 16.33 | 10.50 |
| | **Miller Fertilizer Co., Baltimore, Md.** | | | | | | | | | | | | | |
| 45536 | Acid Phosphate | Baltimore.... | ... | .... | .... | .... | .... | .... | .90 | ..... | 17.10 | 16.00 | 13.01 | 12.00 |
| 45518 | Ammoniated 2-8-2 | Baltimore.... | 1.40 | 1.00 | 2.03 | 2.00 | 2.28 | 2.00 | 1.55 | ..... | 7.75 | 8.00 | 15.44 | 15.00 |
| 44864 | 5-7-5 | Baltimore.... | 4.15 | 3.00 | 4.78 | 5.00 | 5.28 | 5.00 | .70 | ..... | 7.75 | 7.00 | 27.84 | 27.75 |
| 44821 | 5-7-5 | Baltimore.... | 4.60 | 3.00 | 5.19 | 5.00 | 5.12 | 5.00 | 1.25 | ..... | 7.55 | 7.00 | 29.21 | 27.75 |
| 44858 | 4% Alkaline 10-4 | Baltimore.... | ... | .... | .... | .... | 4.24 | 4.00 | .55 | ..... | 10.05 | 10.00 | 10.83 | 10.50 |

| No. | Name and Address of Manufacturer and Name of Fertilizer. | Place of Sampling (and Sender's initials when not Sampled by the College Agent). | $H_2O$ Sol. AMMONIA. | | NITROGEN Calculated as AMMONIA. | | POTASH, $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Miller Fertilizer Co., Cont.** | | | | | | | | | | | | | |
| 45510 | Harvest Queen 1-9-3 | Baltimore | .55 | .... | 1.18 | 1.00 | 3.40 | 3.00 | .70 | .... | 9.90 | 9.00 | $14.55 | $12.75 |
| 44809 | H. G. Potato Fertilizer 7-6-5 | Baltimore | 5.90 | 5.00 | 7.00 | 7.00 | 5.00 | 5.00 | 1.00 | ..... | 6.90 | 6.00 | 35.38 | 34.50 |
| 45512 | Kainit | Baltimore | ... | .... | .... | .... | 12.16 | 12.00 | ..... | ..... | .... | .... | ..... | ..... |
| 44822 | Muriate of Potash | Baltimore | ... | .... | .... | .... | 53.10 | 50.00 | ..... | ..... | .... | .... | ..... | ..... |
| 45513 | Nitrate of Soda | Baltimore | ... | .... | 18.79 | 18.50 | .... | .... | ..... | ..... | .... | .... | ..... | ..... |
| 45635 | No. 1 Potato & Veg. Gro. 4-8-4 | Baltimore | 3.40 | 3.00 | 4.01 | 4.00 | 4.22 | 4.00 | 1.05 | ..... | 8.05 | 8.00 | 24.46 | 24.00 |
| 44859 | No. 1 Potato & Veg. Gro. 4-8-4 | Baltimore | 3.10 | 3.05 | 3.66 | 4.00 | 4.20 | 4.00 | .20 | ..... | 9.20 | 8.00 | 22.92 | 24.00 |
| 44860 | Pimlico 2-8-10 | Baltimore | 1.50 | 1.00 | 2.00 | 2.00 | 10.32 | 10.00 | .65 | ..... | 7.95 | 8.00 | 21.33 | 21.00 |
| 44826 | Potato & Vegetable Gro. 2-9-3 | Baltimore | 1.40 | .... | 2.01 | 2.00 | 3.48 | 3.00 | .88 | ..... | 8.92 | 9.00 | 17.02 | 16.50 |
| 44891 | Standard Phosphate | Baltimore | 1.50 | 2.40 | 2.15 | 3.00 | 5.14 | 3.00 | 1.35 | ..... | 8.23 | 8.00 | 18.36 | 19.50 |
| 45552 | 2-8-5 | Baltimore | 1.30 | 1.00 | 2.01 | 2.00 | 4.66 | 5.00 | 1.05 | ..... | 8.65 | 8.00 | 17.74 | 17.25 |
| 44810 | Vegetable Compound 5-8-5 | Baltimore | 4.30 | 3.00 | 5.00 | 5.00 | 4.78 | 5.00 | .65 | ..... | 8.45 | 8.00 | 28.81 | 28.50 |
| | **J. B. Nichols & Son, Balto., Md.** | | | | | | | | | | | | | |
| 44811 | Farmers Friend 4-7-4 | Baltimore | 1.90 | 1.30 | 3.79 | 4.00 | 3.32 | 4.00 | .80 | ..... | 8.80 | 7.00 | 23.46 | 23.25 |
| | **Nitrate Agencies Co., Balto., Md.** | | | | | | | | | | | | | |
| 44827 | Acid Phosphate 16% H. G. | Baltimore | ... | .... | .... | .... | .... | .... | .40 | ..... | 16.40 | 16.00 | 12.38 | 12.00 |
| 44847 | Animal Tankage | Baltimore | ... | .... | 8.12 | 8.00 | .... | .... | *9.80 | *6.86 | .... | .... | 36.33 | 34.12 |
| 44848 | Ground Dried Fish | Baltimore | ... | .... | 9.87 | 10.00 | .... | .... | *6.95 | *4.57 | .... | .... | 41.18 | 40.26 |
| 44861 | Ground Raw Bone | Baltimore | ... | .... | 5.75 | 4.50 | .... | .... | *19.05 | *20.60 | .... | .... | 32.99 | 29.24 |
| 44828 | Muriate of Potash | Baltimore | ... | .... | .... | .... | 51.10 | 48.00 | ..... | ..... | .... | .... | ..... | ..... |
| 45514 | Naco Formula A 1.46-11.68-5.84 | Baltimore | 1.50 | .73 | 1.98 | 1.46 | 5.62 | 5.84 | .30 | ..... | 11.80 | 11.68 | 20.55 | 18.62 |
| 45515 | Naco Formula E 2.61-10.45-6.53 | Baltimore | 2.20 | 1.50 | 2.80 | 2.61 | 6.52 | 6.53 | .30 | ..... | 11.30 | 10.45 | 23.43 | 22.53 |
| 45537 | Naco Formula R | Baltimore | 2.10 | .... | 2.66 | 2.63 | .... | .... | .70 | | | | | |
| 44849 | Nitrate of Soda | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45514 | Naco Formula A 1.46-11.65-5.51 | Baltimore.... | | | | | | | | | | | | | | |
| 45515 | Naco Formula E 2.61-10.45-6.53 | Baltimore.... | 2.20 | 1.50 | 2.80 | 2.61 | 6.52 | 6.53 | .30 | ..... | 11.30 | 10.45 | 23.83 | 22.53 | | |
| 45537 | Naco Formula R | Baltimore.... | 2.10 | .... | 2.66 | 2.63 | .... | .... | .70 | ..... | 14.20 | 13.15 | 20.77 | 19.72 | | |
| 44849 | Nitrate of Soda | Baltimore.... | ... | .... | 18.64 | 18.25 | .... | .... | ..... | ..... | .... | .... | ..... | ..... | | |
| 44823 | Peruvian Tobacco Bed Special | Baltimore.... | 12.6 | 8.10 | 13.54 | 13.15 | .... | .... | .25 | ..... | 6.55 | 5.26 | 55.74 | 53.26 | | |
| | **G. Ober & Sons Co., Balto., Md.** | | | | | | | | | | | | | | | |
| 44800 | Acid Phosphate H. G. | Baltimore.... | ... | .... | .... | .... | .... | .... | .70 | ..... | 15.40 | 16.00 | 11.69 | 12.00 | | |
| 44801 | Acco Potash Potato Guano 5-7-5 | Baltimore.... | 3.50 | 1.70 | 5.03 | 5.00 | 5.04 | 5.00 | .75 | ..... | 7.85 | 7.00 | 28.68 | 27.75 | | |
| 45553 | Avondale Amm'd. Dissolved Bone | Baltimore.... | 1.30 | .70 | 2.01 | 2.00 | 3.38 | 2.00 | 1.00 | ..... | 8.70 | 8.00 | 16.81 | 15.00 | | |
| 45554 | Farmers' Mixture 1-9-2 | Baltimore.... | .57 | .34 | 1.01 | 1.00 | 2.62 | 2.00 | .60 | ..... | 9.90 | 9.00 | 13.31 | 12.00 | | |
| 45519 | Golden Top Wheat & Corn Gro. 1-9-3 | Baltimore.... | .49 | .34 | 1.21 | 1.00 | 3.08 | 3.00 | .90 | ..... | 9.80 | 9.00 | 14.38 | 12.75 | | |
| 45555 | Independent Mixture 1-8-1 | Baltimore.... | .51 | .34 | 1.14 | 1.00 | 1.32 | 1.00 | .80 | ..... | 8.70 | 8.00 | 11.96 | 10.50 | | |
| 44812 | Kainit | Baltimore.... | ... | .... | .... | .... | 16.10 | 12.00 | ..... | ..... | .... | .... | ..... | ..... | | |
| 45520 | Nitrate of Soda | Baltimore.... | ... | .... | 19.07 | 18.00 | .... | .... | ..... | ..... | .... | .... | ..... | ..... | | |
| 44874 | Pure Bone Meal | Baltimore.... | ... | .... | 2.69 | 3.00 | .... | .... | *27.13 | *22.00 | .... | .... | 26.36 | 24.45 | | |
| 45556 | Red Seal Corn & Wheat Guano | Baltimore.... | 1.40 | .70 | 2.01 | 2.00 | 2.20 | 2.00 | 1.35 | ..... | 12.25 | 12.00 | 18.65 | 18.00 | | |
| 44802 | Sol. Amm. Super Phos. of Lime | Baltimore.... | 1.30 | .70 | 2.38 | 2.00 | 2.16 | 2.00 | 1.00 | ..... | 8.80 | 8.00 | 17.35 | 15.00 | | |
| 45538 | Spec. Compound for Tobacco | Baltimore.... | 2.10 | 1.00 | 2.91 | 3.00 | 3.04 | 3.00 | .70 | ..... | 9.00 | 8.00 | 20.08 | 19.50 | | |
| 44829 | Special Plant Food 2-9-5 | Baltimore.... | 1.10 | .85 | 2.03 | 2.00 | 6.02 | 5.00 | .45 | ..... | 9.65 | 9.00 | 19.46 | 18.00 | | |
| 44803 | Spec. Tobacco Bed Fert. 10-4-0 | Baltimore.... | 6.80 | 3.30 | 9.60 | 10.00 | .... | .... | .40 | ..... | 5.00 | 4.00 | 39.83 | 40.50 | | |
| 45539 | Stag Guano | Baltimore.... | .31 | .34 | 1.08 | 1.00 | 4.28 | 4.00 | 1.15 | ..... | 8.45 | 8.00 | 13.93 | 12.75 | | |
| 45540 | Standard Potash Compound | Baltimore.... | ... | .... | .... | .... | 6.20 | 6.00 | 1.40 | ..... | 12.90 | 12.00 | 14.61 | 13.50 | | |
| 44804 | Stand. Southern Veg. Compound | Baltimore.... | 5.60 | 2.30 | 7.03 | 7.00 | 5.00 | 5.00 | .85 | ..... | 6.75 | 6.00 | 35.34 | 34.50 | | |
| 44813 | Starkey Truck Compound 4-8-5 | Baltimore.... | 2.90 | 1.30 | 4.06 | 4.00 | 4.78 | 5.00 | .70 | ..... | 8.80 | 8.00 | 25.56 | 24.75 | | |
| 45516 | Sup. Potato & Veg. 2-8-10 | Baltimore.... | 1.50 | .70 | 2.12 | 2.00 | 10.00 | 10.00 | 1.05 | ..... | 8.95 | 8.00 | 22.37 | 21.00 | | |
| 44814 | Swan "E" Fish Guano 2-9-3 | Baltimore.... | 1.10 | .70 | 2.15 | 2.00 | 3.08 | 3.00 | .55 | ..... | 10.05 | 9.00 | 18.02 | 16.50 | | |
| | **Pacific Manure & Fert. Co., San Francisco, Cal.** | | | | | | | | | | | | | | | |
| 44830 | Groz-it Brand Sheep Manure | Baltimore.... | .21 | .... | 1.68 | 2.25 | 3.00 | 3.00 | .10 | ..... | 1.15 | .75 | 9.43 | 11.10 | | |
| | **Patuxent Guano Co., Balto., Md.** | | | | | | | | | | | | | | | |
| 45611 | Beaver Brand Guano 1-9-3 | Baltimore.... | 1.20 | .... | 1.50 | 1.00 | 4.02 | 3.00 | 1.95 | ..... | 9.45 | 9.00 | 16.13 | 12.75 | | |
| 45615 | Champion Fertilizer 2-8-5 | Baltimore.... | 1.40 | .67 | 1.81 | 2.00 | 4.70 | 5.00 | 1.25 | ..... | 8.70 | 8.00 | 17.10 | 17.25 | | |
| 45612 | Golden Harvest 1-9-2 | Baltimore.... | .88 | .... | 1.27 | 1.00 | 2.32 | 2.00 | 1.90 | ..... | 10.10 | 9.00 | 15.21 | 12.00 | | |
| 45616 | Grain & Clover Producer 1-8-4 | Baltimore.... | 1.20 | .... | 1.56 | 1.00 | 4.88 | 4.00 | 2.25 | ..... | 8.05 | 8.00 | 16.00 | 12.75 | | |
| 44883 | Guano 2-8-2 | Baltimore.... | 1.60 | .67 | 2.35 | 2.00 | 2.28 | 2.00 | 3.00 | ..... | 7.90 | 8.00 | 17.05 | 15.00 | | |
| 44884 | Nitrate of Soda | Baltimore.... | ... | .... | 18.92 | 18.00 | .... | .... | ..... | ..... | .... | .... | ..... | ..... | | |
| 44885 | Raw Bone | Baltimore.... | ... | .... | 3.73 | 4.50 | .... | .... | *25.90 | *21.15 | .... | .... | 29.53 | 29.57 | | |
| 44875 | Trucker & Quick Grower | Baltimore.... | 4.10 | 2.30 | 4.83 | 5.00 | 5.48 | 5.00 | 1.60 | ..... | 7.40 | 7.00 | 28.09 | 27.75 | | |
| | **Peerless Fertilizer Co., Chestertown, Md.** | | | | | | | | | | | | | | | |
| 45500 | American Standard Fertilizer | Chestertown.. | 4.30 | .... | 4.66 | 4.00 | 7.14 | 5.00 | .55 | ..... | 7.15 | 6.00 | 28.31 | 23.25 | | |
| 45501 | Fish Mixture | Chestertown.. | 1.20 | .... | 1.65 | 2.00 | 4.26 | 3.00 | .45 | ..... | 8.85 | 8.00 | 16.12 | 15.75 | | |

* Total Phosphoric Acid.

| No. | Name and Address of Manufacturer and Name of Fertilizer. | Place of Sampling (and Sender's initials when not Sampled by the College Agent). | $H_2O$ Sol. AMMONIA. | | NITROGEN Calculated as AMMONIA. | | POTASH, $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Peerless Fertilizer Co., Cont.** | | | | | | | | | | | | | |
| 45502 | Ford's Ideal | Chestertown.. | **.29** | .... | **.63** | .50 | **4.91** | 3.00 | **.90** | .... | **8.20** | 8.00 | **$12.37** | $10.13 |
| 45503 | Our Peerless | Chestertown.. | **1.60** | .... | **2.01** | 2.00 | **6.60** | 5.00 | **.70** | ..... | **8.30** | 8.00 | **18.86** | 17.25 |
| 45504 | Pure German Kainit 12% | Chestertown.. | ... | .... | .... | .... | **13.64** | 12.00 | ..... | ..... | .... | .... | ..... | ..... |
| 45505 | Sweet Potato Manure | Chestertown.. | **1.50** | .... | **1.92** | 2.00 | **7.36** | 7.00 | **.85** | ..... | **7.45** | 7.00 | **18.48** | 18.00 |
| 45506 | Trucker's Pride | Chestertown.. | **5.40** | .... | **6.19** | 7.00 | **5.00** | 5.00 | **1.00** | ..... | **7.40** | 6.00 | **32.71** | 34.50 |
| | **Piedmont-Mt. Airy Guano Co., Baltimore, Md.** | | | | | | | | | | | | | |
| 44886 | Acid Phosphate 16% | Baltimore.... | ... | .... | .... | .... | .... | .... | **1.35** | ..... | **15.95** | 16.00 | **12.23** | 12.00 |
| 44899 | Acid Phosphate 16% | Sykesville.... | ... | .... | .... | .... | .... | .... | **.87** | ..... | **16.53** | 16.00 | **12.57** | 12.00 |
| 45606 | Ammoniated Fertilizer 1-9-3 | Baltimore.... | **.63** | .32 | **1.09** | 1.00 | **3.12** | 3.00 | **.95** | ..... | **9.70** | 9.00 | **13.90** | 12.75 |
| 45614 | Cultivation | Baltimore.... | **1.30** | .67 | **2.00** | 2.00 | **2.16** | 2.00 | **1.05** | ..... | **8.55** | 8.00 | **15.74** | 15.00 |
| 44850 | Early Trucker 5-6-5 | Baltimore.... | **3.80** | 1.70 | **4.81** | 5.00 | **5.24** | 5.00 | **.65** | ..... | **6.95** | 6.00 | **27.31** | 27.00 |
| 44868 | Farmers' Favorite 1-8-4 | Baltimore.... | **.48** | .34 | **1.06** | 1.00 | **4.00** | 4.00 | **1.35** | ..... | **8.75** | 8.00 | **13.81** | 12.75 |
| 44893 | Fish Mixture 2-8-2 | Baltimore.... | **1.20** | .67 | **2.01** | 2.00 | **2.40** | 2.00 | **1.05** | ..... | **7.95** | 8.00 | **15.51** | 15.00 |
| 44839 | 5-8-5 Fertilizer | Crownsville .. | **2.50** | 1.70 | **3.46** | 5.00 | **5.36** | 5.00 | **1.05** | ..... | **8.60** | 8.00 | **23.66** | 28.50 |
| 44843 | 4-8-5 Fertilizer | Catonsville... | **2.90** | 1.10 | **4.01** | 4.00 | **5.28** | 5.00 | **1.05** | ..... | **8.65** | 8.00 | **25.70** | 24.75 |
| 44882 | 4-8-5 Fertilizer | Owings Mills. | **2.40** | 1.20 | **3.74** | 4.00 | **5.40** | 5.00 | **1.38** | ..... | **8.32** | 8.00 | **24.60** | 21.00 |
| 14831 | Gold Rod 7-6-5 | Baltimore.... | **5.50** | 2.30 | **6.73** | 7.00 | **5.24** | 5.00 | **.35** | ..... | **6.50** | 6.00 | **34.12** | 34.50 |
| 45541 | Harvest Queen | Baltimore.... | **1.10** | .27 | **1.74** | 1.00 | **2.70** | 2.00 | **1.55** | ..... | **8.65** | 8.00 | **15.36** | 11.25 |
| 45557 | H. G. Amm'd Phos. & Potash 3-8-3 | Baltimore.... | **1.80** | 1.00 | **2.72** | 3.00 | **4.36** | 3.00 | **1.05** | ..... | **8.55** | 8.00 | **20.09** | 19.50 |
| 44844 | Ideal Wheat & Corn 2-10-2 | Catonsville... | **1.30** | .55 | **2.25** | 2.00 | **2.36** | 2.00 | **1.30** | ..... | **10.10** | 10.00 | **18.05** | 16.50 |
| 44845 | Kainit | Catonsville... | ... | .... | .... | .... | **13.04** | 12.40 | ..... | ..... | .... | .... | ..... | ..... |
| 44840 | Kainit | Crownsville .. | ... | .... | .... | .... | **14.32** | 12.40 | ..... | ..... | .... | .... | ..... | ..... |
| 44846 | Nitrate of Soda | Catonsville... | | | | | | | | | | | | |
| 44841 | Perfection Guano 2-8-2 | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 44846 | Nitrate of Soda | Catonsville | ... | .... | 18.81 | 18.25 | .... | .... | ..... | ..... | ..... | .... | .... | ..... | ..... |
| 44841 | Perfection Guano 2-8-5 | Crownsville | 1.30 | .67 | 2.29 | 2.00 | 5.36 | 5.00 | 1.00 | ..... | 8.75 | 8.00 | 19.37 | 17.25 |
| 44832 | Perfection Guano 2-8-5 | Baltimore | 1.80 | .... | 2.70 | 2.00 | 8.62 | 5.00 | .75 | ..... | 7.65 | 8.00 | 22.49 | 17.25 |
| 44815 | Plant Bed 10-5-2 | Baltimore | 5.90 | 3.30 | 9.00 | 10.00 | 2.48 | 2.00 | 1.40 | ..... | 6.30 | 5.00 | 40.62 | 42.75 |
| 44851 | Raw Bone Meal | Baltimore | ... | .... | 5.45 | 4.50 | .... | .... | *22.15 | *22.90 | .... | .... | 33.73 | 30.62 |
| 44881 | Raw Bone Meal | Owings Mills | ... | .... | 5.23 | 4.50 | .... | .... | *23.20 | *22.90 | .... | .... | 33.53 | 30.62 |
| 44876 | Special Potash Mixture | Baltimore | ... | .... | .... | .... | 10.06 | 5.00 | .70 | ..... | 10.40 | 10.00 | 15.49 | 11.25 |
| 44865 | Standard 2-8-3 | Baltimore | 1.40 | .67 | 2.15 | 2.00 | 4.04 | 3.00 | 1.15 | ..... | 7.85 | 8.00 | 17.21 | 15.75 |
| 45521 | Sulphate of Ammonia | Baltimore | ... | .... | 25.22 | 25.00 | .... | .... | ..... | ..... | .... | .... | ..... | ..... |
| 45522 | Sulphate of Potash | Baltimore | ... | .... | .... | .... | 49.90 | 48.00 | ..... | ..... | .... | .... | ..... | ..... |
| 44842 | 3-10-4 Fertilizer | Crownsville | 2.40 | .82 | 3.24 | 3.00 | 5.04 | 4.00 | 1.10 | ..... | 9.70 | 10.00 | 23.43 | 21.75 |
| 44894 | 2-12-4 Fertilizer | Sykesville | 1.70 | .... | 2.27 | 2.00 | 4.04 | 4.00 | 1.13 | ..... | 12.17 | 12.00 | 20.90 | 19.50 |
| 44877 | 2-12-2 Fertilizer | Owings Mills | 1.70 | .67 | 2.15 | 2.00 | 2.96 | 2.00 | 1.23 | ..... | 11.62 | 12.00 | 19.25 | 18.00 |
| 44895 | Unexcelled Guano 4-8-4 | Sykesville | 2.90 | .... | 4.03 | 4.00 | 4.20 | 4.00 | .95 | ..... | 8.75 | 8.00 | 25.01 | 24.00 |
| 44878 | Utility Fertilizer 2-10-0 | Baltimore | 1.20 | .67 | 2.00 | 2.00 | .... | .... | 1.05 | ..... | 10.75 | 10.00 | 15.77 | 15.00 |
| | **Ramsburg Fertilizer Co., Frederick, Md.** | | | | | | | | | | | | | |
| 45618 | Ammoniated Bone Phosphate | Frederick | .54 | .85 | .98 | 1.00 | 2.12 | 2.00 | 1.55 | ..... | 11.75 | 10.00 | 14.40 | 12.75 |
| 45619 | Corn and Potato Fertilizer | Frederick | .53 | .98 | .99 | 1.00 | 4.12 | 4.00 | 1.35 | ..... | 11.03 | 8.00 | 15.34 | 12.75 |
| 45623 | Excelsior Plant Food | Frederick | 1.20 | 1.80 | 2.00 | 2.00 | 1.48 | 2.00 | 3.40 | ..... | 11.80 | 10.00 | 18.14 | 16.50 |
| 45620 | Old Virginia Compound | Frederick | .50 | .85 | .93 | 1.00 | 4.78 | 4.00 | 1.45 | ..... | 10.85 | 8.00 | 15.51 | 12.75 |
| 45621 | Queen | Frederick | .27 | .43 | .53 | .50 | 1.12 | 1.00 | 1.90 | ..... | 13.65 | 10.00 | 13.45 | 10.13 |
| 45622 | Special Rock & Phosphate | Frederick | ... | .... | .... | .... | 4.22 | 5.00 | 1.05 | ..... | 12.35 | 12.00 | 12.64 | 12.75 |
| 45617 | Super Phosphate | Frederick | ... | .... | .... | .... | .... | .... | 1.95 | ..... | 16.90 | 16.00 | 12.53 | 12.00 |
| | **Rasin-Monumental Co., Balto., Md.** | | | | | | | | | | | | | |
| 44824 | Acid Phosphate 16% | Baltimore | ... | .... | .... | .... | .... | .... | 1.15 | ..... | 16.25 | 16.00 | 12.42 | 16.00 |
| 45607 | Best Potato Formula 4-8-6 | Baltimore | 3.40 | 2.00 | 3.67 | 4.00 | 6.08 | 6.00 | 1.00 | ..... | 9.60 | 8.00 | 25.72 | 25.50 |
| 44805 | Early Trucker Special 5-8-5 | Baltimore | 5.80 | 2.98 | 6.93 | 5.00 | 5.36 | 5.00 | 2.15 | ..... | 7.05 | 8.00 | 35.73 | 28.50 |
| 45523 | Eastern Shore Special | Baltimore | 5.70 | 3.50 | 6.03 | 7.00 | 5.74 | 5.00 | 1.30 | ..... | 7.20 | 6.00 | 32.58 | 34.50 |
| 44825 | Kainit | Baltimore | ... | .... | .... | .... | 13.04 | 12.40 | ..... | ..... | .... | .... | ..... | ..... |
| 44806 | Nitrate of Soda | Baltimore | ... | .... | 18.44 | 18.00 | .... | .... | ..... | ..... | .... | .... | ..... | ..... |
| 44887 | Phospho Tobacco | Baltimore | ... | .... | .... | .... | .... | .... | 1.30 | ..... | 13.50 | 13.00 | 10.39 | 9.75 |
| 44816 | Raw Bone Meal | Baltimore | ... | .... | 5.36 | 4.50 | .... | .... | *20.40 | *20.00 | .... | .... | 32.34 | 28.88 |
| 44807 | Royal Fish Bone & Potash 2-8-3 | Baltimore | 2.20 | .78 | 3.31 | 2.00 | 3.36 | 3.00 | 2.20 | ..... | 8.40 | 8.00 | 21.67 | 15.75 |
| 45524 | Special Phosphate & Potash 10-5 | Baltimore | ... | .... | .... | .... | 5.00 | 5.00 | 1.75 | ..... | 11.15 | 10.00 | 11.71 | 11.25 |
| 45525 | Vegetable Special 2-8-10 | Baltimore | 2.00 | .65 | 2.22 | 2.00 | 10.00 | 10.00 | 1.60 | ..... | 8.70 | 8.00 | 22.68 | 21.00 |
| 45613 | United Grain Grower | Baltimore | .79 | .49 | 1.06 | 1.00 | 1.84 | 2.00 | 2.40 | ..... | 8.70 | 8.00 | 12.37 | 11.25 |
| 45542 | Universal Crop Manure | Baltimore | 1.90 | .78 | 2.20 | 2.00 | 5.36 | 5.00 | 1.55 | ..... | 8.55 | 8.00 | 18.99 | 17.25 |

* Total Phosphoric Acid.

| No. | Name and Address of Manufacturer and Name of Fertilizer. | Place of Sampling (and Sender's initials when not Sampled by the College Agent). | $H_2O$ Sol. AMMONIA. | | NITROGEN Calculated as AMMONIA. | | POTASH, $K_2O$. | | PHOSPHORIC ACID. Insoluble. | | PHOSPHORIC ACID. Available. | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **W. E. Robinson, Bel Air, Md.** | | | | | | | | | | | | | |
| 45624 | Vegetable & Grain Grower..... | Bel Air..... | **1.10** | 1.30 | **1.80** | 2.00 | **2.00** | 2.00 | **.25** | .... | **8.85** | 8.00 | **$14.94** | $15.00 |
| | **F. S. Royster Guano Co., Balto., Md.** | | | | | | | | | | | | | |
| 44817 | Arrow 7% Potato Guano 7-6-5.. | Baltimore.... | **4.90** | 4.70 | **6.89** | 7.00 | **5.16** | 5.00 | **.55** | ..... | **6.65** | 6.00 | **34.81** | 34.50 |
| 45526 | Banner Guano 2-8-10..... | Baltimore.... | **1.40** | 1.30 | **2.01** | 2.00 | **10.40** | 10.00 | **.75** | ..... | **8.55** | 8.00 | **25.65** | 21.00 |
| 45527 | Bully Guano 2-8-5..... | Baltimore.... | **2.10** | 1.30 | **2.36** | 2.00 | **5.00** | 5.00 | **.70** | ..... | **9.50** | 8.00 | **19.87** | 17.25 |
| 44896 | Cuckoo Guano 1-8-1..... | Ellicott City.. | **.67** | .66 | **1.13** | 1.00 | **1.48** | 1.00 | **1.00** | ..... | **8.40** | 8.00 | **11.85** | 10.50 |
| 45558 | Dreadnought Guano 2-8-2..... | Baltimore.... | **1.40** | 1.30 | **2.05** | 2.00 | **2.80** | 2.00 | **1.60** | ..... | **8.10** | 8.00 | **16.10** | 15.00 |
| 44833 | Fish Flesh & Fowl 2-8-3..... | Baltimore.... | **1.90** | 1.60 | **2.74** | 2.00 | **3.88** | 3.00 | **1.15** | ..... | **8.45** | 8.00 | **19.76** | 15.75 |
| 45559 | German Kainit ..... | Baltimore.... | ... | .... | .... | .... | **12.28** | 12.00 | ..... | ..... | .... | .... | ..... | ..... |
| 45608 | Muriate of Potash..... | Baltimore.... | ... | .... | .... | .... | **52.20** | 48.00 | ..... | ..... | .... | .... | ..... | ..... |
| 45528 | Nitrate of Soda ..... | Baltimore.... | ... | .... | **18.89** | 18.24 | .... | .... | ..... | ..... | .... | .... | ..... | ..... |
| 45560 | Phosphate & Potash 12-5..... | Baltimore.... | ... | .... | .... | .... | **5.12** | 5.00 | **.65** | ..... | **12.15** | 12.00 | **13.08** | 12.75 |
| 44897 | Rational Guano 1-8-4..... | Ellicott City.. | **.61** | .66 | **1.09** | 1.00 | **4.20** | 4.00 | **1.15** | ..... | **8.25** | 8.00 | **13.65** | 12.75 |
| 44852 | Ripper Potato Guano 5-7-5..... | Baltimore.... | **4.50** | 3.30 | **5.95** | 5.00 | **5.28** | 5.00 | **.83** | ..... | **6.82** | 7.00 | **31.46** | 27.75 |
| 44879 | Truckers' Delight ..... | Baltimore.... | **3.20** | 2.70 | **3.84** | 4.00 | **4.04** | 4.00 | **.90** | ..... | **8.10** | 8.00 | **23.69** | 24.00 |
| 44898 | Vim Guano 2-12-2..... | Ellicott City.. | **1.30** | 1.30 | **2.00** | 2.00 | **2.08** | 2.00 | **1.40** | ..... | **12.20** | 12.00 | **18.49** | 18.00 |
| | **Scott Fertilizer Co., Inc., Elkton, Md.** | | | | | | | | | | | | | |
| 45591 | Genuine German Kainit..... | Elkton ..... | ... | .... | .... | .... | **12.80** | 12.00 | ..... | ..... | .... | .... | ..... | ..... |
| 45592 | Potato Grower 2-8-10..... | Elkton ..... | **1.30** | 1.00 | **1.90** | 2.00 | **10.40** | 10.00 | **1.15** | ..... | **8.45** | 8.00 | **21.60** | 21.00 |
| 45593 | Potato & Truck Special 2-8-5... | Elkton ..... | **1.40** | .... | **2.01** | 2.00 | **5.00** | 5.00 | **1.40** | ..... | **8.10** | 8.00 | **17.65** | 17.25 |
| 45594 | Pure Ground Raw Bone..... | Elkton ..... | ... | .... | **4.75** | 4.50 | .... | .... | ***20.45** | *21.00 | .... | .... | **29.98** | 29.48 |
| 45595 | Sol. Phosphate & Potash 10-2... | Elkton ..... | ... | .... | .... | .... | **2.12** | 2.00 | **.90** | ..... | **10.55** | 10.00 | **10.49** | 9.00 |
| 45596 | Sol. Phosphate & Potash 12-5... | Elkton ..... | ... | .... | .... | .... | **5.22** | 5.00 | | | | | | |
| 45597 | Special Grain Gr[illegible] | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45595 | Sol. Phosphate & Potash 10-2... | Elkton..... | ... | .... | .... | .... | 2.92 | 2.00 | .... | ..... | 12.92 | 12.00 | 15.00 | 14.00 |
| 45596 | Sol. Phosphate & Potash 12-5... | Elkton..... | ... | .... | .... | .... | 5.92 | 5.00 | .90 | ..... | 12.10 | 12.00 | 13.70 | 12.75 |
| 45597 | Special Grain Grower ½-8-4.... | Elkton..... | .15 | .... | .61 | .50 | 4.40 | 4.00 | .75 | ..... | 8.15 | 8.00 | 11.85 | 10.91 |
| 45598 | Sure Growth Compound 4-8-7... | Elkton..... | 3.30 | 3.00 | 3.81 | 4.00 | 7.00 | 7.00 | 1.05 | ..... | 8.25 | 8.00 | 25.94 | 26.25 |
| 44888 | Sure Grower Superphosphate ... | Baltimore.... | 1.40 | 1.00 | 2.80 | 2.00 | 3.12 | 3.00 | 1.45 | ..... | 7.77 | 8.00 | 16.26 | 15.75 |
| 45599 | Tip Top Sol. Phosphate 16%.... | Elkton..... | ... | .... | .... | .... | .... | .... | .70 | ..... | 15.90 | 16.00 | 12.07 | 12.00 |
| 45600 | Wheat & Grass ½-8-2..... | Elkton..... | .10 | .... | .56 | .50 | 2.32 | 2.00 | .75 | ..... | 8.35 | 8.00 | 10.25 | 9.38 |
| | **W. H. Streett & Co., Fallston, Md.** | | | | | | | | | | | | | |
| 45625 | Ammoniated 1½-9-1 ..... | Fallston..... | 1.00 | .... | 1.55 | 1.50 | 1.74 | 1.00 | .70 | ..... | 9.90 | 9.00 | 14.69 | 13.13 |
| 45626 | H. G. Bone Phosphate..... | Fallston..... | 1.40 | .... | 2.08 | 2.00 | 4.12 | 4.00 | 1.20 | ..... | 9.70 | 10.00 | 18.41 | 18.00 |
| | **Summers Fertilizer Co., Balto., Md.** | | | | | | | | | | | | | |
| 45511 | All Crop Grower 2-8-5..... | Baltimore.... | 2.10 | 2.00 | 2.49 | 2.00 | 5.32 | 5.00 | .80 | ..... | 8.00 | 8.00 | 19.49 | 17.25 |
| 45543 | Kainit ..... | Baltimore.... | ... | .... | .... | .... | 15.48 | 12.00 | ..... | ..... | .... | .... | ..... | ..... |
| | **Superior Guano Co., Balto., Md.** | | | | | | | | | | | | | |
| 44869 | Acid Phosphate 16%..... | Baltimore.... | ... | .... | .... | .... | .... | .... | .10 | ..... | 17.80 | 16.00 | 13.37 | 12.00 |
| 45550 | Amm'd Dissolved Bone M. B. W. | Preston..... | .22 | .... | .87 | 1.25 | .... | .... | .30 | ..... | 12.05 | 10.00 | 12.36 | 12.19 |
| 45551 | Amm'd Phos. & Potash M. B. W. | Preston..... | .50 | .... | .84 | 1.00 | 2.92 | 2.00 | .60 | ..... | 8.70 | 8.00 | 11.99 | 11.25 |
| 45544 | Big Crop Grower 2-8-2..... | Baltimore.... | .55 | .... | 1.69 | 2.00 | 2.20 | 2.00 | .50 | ..... | 9.50 | 8.00 | 15.22 | 15.00 |
| 44889 | Buyers' Mixture 2-8-10..... | Baltimore.... | 1.00 | .... | 2.15 | 2.00 | 9.24 | 10.00 | 1.30 | ..... | 9.60 | 8.00 | 22.45 | 21.00 |
| 45529 | Caroline Special ..... | Baltimore.... | .49 | .... | 1.14 | 1.00 | 3.64 | 3.00 | 1.35 | ..... | 9.05 | 9.00 | 14.07 | 12.75 |
| 45530 | Corn and Tomato ½-8-1..... | Baltimore.... | .07 | .... | .55 | .50 | 1.16 | 1.00 | .30 | ..... | 9.40 | 8.00 | 10.04 | 8.63 |
| 44870 | Crab Scrap ..... | Baltimore.... | 1.10 | .... | 6.01 | 4.50 | .52 | 1.00 | .50 | ..... | 3.60 | 3.00 | 25.72 | 19.88 |
| 44853 | Franklin Special 3-8-3..... | Baltimore.... | 1.30 | .... | 2.47 | 3.00 | 3.48 | 3.00 | 1.20 | ..... | 9.20 | 8.00 | 19.01 | 19.50 |
| 44871 | Fruit Special 2-8-5..... | Baltimore.... | 1.20 | 1.70 | 2.15 | 2.00 | 6.56 | 5.00 | .95 | ..... | 8.15 | 8.00 | 19.28 | 17.25 |
| 44872 | Kainit ..... | Baltimore.... | ... | .... | .... | .... | 14.56 | 12.00 | ..... | ..... | .... | .... | ..... | ..... |
| 44873 | Royal Crop Grower 1-8-4..... | Baltimore.... | .73 | .... | .99 | 1.00 | 4.44 | 4.00 | .10 | ..... | 9.30 | 8.00 | 14.04 | 12.75 |
| 44890 | Special Corn & Grass..... | Baltimore.... | ... | .... | .... | .... | 3.28 | 3.00 | 2.85 | ..... | 5.85 | 7.00 | 7.42 | 7.50 |
| 44867 | Steven's Asparagus Mixture.... | Baltimore.... | 1.20 | .... | 2.34 | 2.00 | 3.72 | 3.00 | 1.65 | ..... | 8.25 | 8.00 | 18.09 | 15.75 |
| | **Swift & Co., Baltimore, Md.** | | | | | | | | | | | | | |
| 44834 | Acid Phosphate 16%..... | Baltimore.... | ... | .... | .... | .... | .... | .... | .10 | ..... | 16.60 | 16.00 | 12.47 | 12.00 |
| 45561 | Bone Meal Fertilizer..... | Baltimore.... | ... | .... | 3.77 | 3.00 | .... | .... | *21.90 | *24.00 | .... | .... | 27.28 | 25.65 |
| 44835 | "C" 2-8-4 ..... | Baltimore.... | 1.30 | 1.30 | 2.05 | 2.00 | 4.16 | 4.00 | .40 | ..... | 8.30 | 8.00 | 17.12 | 16.50 |
| 44836 | Canning Crop Fertilizer 4-8-4... | Baltimore.... | 3.40 | 2.60 | 4.10 | 4.00 | 4.40 | 4.00 | .25 | ..... | 8.25 | 8.00 | 24.92 | 24.00 |
| 45562 | Champion Wheat & Corn Gro. 2-12-2 | Baltimore.... | 1.60 | 1.30 | 2.17 | 2.00 | 2.20 | 2.00 | .25 | ..... | 12.15 | 12.00 | 18.95 | 18.00 |
| 44866 | Early Potato Grower 5-8-5..... | Baltimore.... | 4.00 | 3.30 | 4.83 | 5.00 | 5.12 | 5.00 | .40 | ..... | 8.80 | 8.00 | 28.63 | 28.50 |
| 44862 | Early Truck 5-8-4..... | Baltimore.... | 4.00 | 3.30 | 5.05 | 5.00 | 4.16 | 4.00 | .70 | ..... | 8.50 | 8.00 | 28.58 | 27.75 |
| 45531 | Golden Grain Grower 2-8-5.... | Baltimore.... | 1.50 | 1.30 | 2.01 | 2.00 | 5.00 | 5.00 | .90 | ..... | 8.30 | 8.00 | 17.70 | 17.25 |
| 45563 | Grain Fertilizer 1-8-2..... | Baltimore.... | .73 | .65 | 1.09 | 1.00 | 2.08 | 2.00 | .20 | ..... | 8.10 | 8.00 | 11.77 | 11.25 |
| 44854 | Hummer 7-6-5 ..... | Baltimore.... | 6.60 | 4.60 | 7.57 | 7.00 | 2.67 | 5.00 | .10 | ..... | 7.90 | 6.00 | 36.34 | 34.50 |

* Total Phosphoric Acid.

| No. | Name and Address of Manufacturer and Name of Fertilizer. | Place of Sampling (and Sender's initials when not Sampled by the College Agent). | $H_2O$ Sol. AMMONIA. | | NITROGEN Calculated as AMMONIA. | | POTASH, $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Swift & Co., Cont.** | | | | | | | | | | | | | |
| 44837 | Kainit | Baltimore | ... | .... | .... | .... | **12.64** | 12.40 | ..... | ..... | .... | .... | ..... | ..... |
| 45609 | Monmouth Potato Manure 4-8-5 | Baltimore | **3.40** | 2.60 | **4.10** | 4.00 | **5.16** | 5.00 | **.90** | .... | **7.80** | 8.00 | **$25.28** | $24.75 |
| 45564 | Muriate of Potash | Baltimore | ... | .... | .... | .... | **50.50** | 50.00 | ..... | ..... | .... | .... | ..... | ..... |
| 45565 | Planters' Favorite 3-8-3 | Baltimore | **2.40** | 1.95 | **3.05** | 3.00 | **3.36** | 3.00 | **.30** | ..... | **8.20** | 8.00 | **20.17** | 19.50 |
| 45532 | Red Steer 2-8-2 | Baltimore | **1.40** | 1.30 | **2.00** | 2.00 | **2.00** | 2.00 | **1.00** | ..... | **8.10** | 8.00 | **15.28** | 15.00 |
| 44855 | Special Potato Fertilizer 2-8-10 | Baltimore | **1.30** | 1.30 | **2.17** | 2.00 | **10.00** | 10.00 | **.70** | ..... | **6.65** | 8.00 | **20.77** | 21.00 |
| 44856 | Special Top Dresser 10-5-0 | Baltimore | **8.10** | 6.50 | **10.32** | 10.00 | .... | .... | **1.10** | ..... | **5.30** | 5.00 | **42.90** | 41.25 |
| 45533 | Special Wheat Grower 1-8-4 | Baltimore | **.66** | .65 | **1.09** | 1.00 | **4.00** | 4.00 | **.10** | ..... | **8.20** | 8.00 | **13.26** | 12.75 |
| | **I. P. Thomas & Son Co., Phila., Pa.** | | | | | | | | | | | | | |
| 45601 | Acid Phosphate 16% | Colora | ... | .... | .... | .... | .... | .... | **1.15** | ..... | **16.65** | 16.00 | **12.72** | 12.00 |
| 45602 | Ammoniated Fish Base 2-8-2 | Colora | **.96** | .... | **2.10** | 2.00 | **3.42** | 2.00 | **2.75** | ..... | **10.55** | 8.00 | **18.57** | 15.00 |
| 45603 | Fish Mixture 1-8-5 | Colora | **.57** | .... | **1.13** | 1.00 | **5.04** | 5.00 | **3.13** | ..... | **7.22** | 8.00 | **14.07** | 13.50 |
| 45604 | Special Potato Fertilizer | Colora | **1.30** | .... | **2.08** | 2.00 | **10.00** | 10.00 | **1.35** | ..... | **8.65** | 8.00 | **22.06** | 21.00 |
| 45605 | Victor Potash Fertilizer 2-8-5 | Colora | **1.20** | .... | **2.20** | 2.00 | **5.24** | 5.00 | **1.85** | ..... | **7.65** | 8.00 | **18.29** | 17.25 |
| | **W. B. Tilghman Co., Salisbury, Md.** | | | | | | | | | | | | | |
| 45570 | Acid Phosphate H. G. | Salisbury | ... | .... | .... | .... | .... | .... | **.25** | ..... | **16.75** | 16.00 | **12.61** | 12.00 |
| 45571 | Early Truck Guano 5-8-5 | Salisbury | **3.80** | 3.30 | **5.07** | 5.00 | **5.00** | 5.00 | **1.10** | ..... | **8.90** | 8.00 | **29.66** | 28.50 |
| 45572 | H. G. Potash Mixture 2-8-10 | Salisbury | **1.30** | 1.00 | **2.00** | 2.00 | **10.40** | 10.00 | **.50** | ..... | **10.70** | 8.00 | **23.43** | 21.00 |
| 45573 | Irish P. Guano 7-6-5 | Salisbury | **5.50** | 4.80 | **6.44** | 7.00 | **5.20** | 5.00 | **.65** | ..... | **7.75** | 6.00 | **33.99** | 34.50 |
| 45574 | Mixture "B" 4-8-4 | Salisbury | **2.90** | 2.30 | **3.99** | 4.00 | **4.08** | 4.00 | **.35** | ..... | **8.85** | 8.00 | **24.73** | 24.00 |
| 45575 | Special Corn Fertilizer 1-10-5 | Salisbury | **.60** | .50 | **1.04** | 1.00 | **5.20** | 5.00 | **.65** | ..... | **10.75** | 10.00 | **15.99** | 15.00 |
| 45576 | Special 3-7-7 | Salisbury | **1.80** | 1.60 | **2.99** | 3.00 | **7.82** | 7.00 | **.60** | ..... | **8.30** | 7.00 | **23.43** | 21.75 |
| 45577 | Special 2-8-5 | Salisbury | **1.40** | 1.00 | **2.30** | 2.00 | **5.08** | 5.00 | **1.25** | ..... | **8.70** | 8.00 | **19.73** | 18.00 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45577 | Special 2-8-5 | Salisbury | 1.40 | 1.00 | 2.20 | 2.00 | 5.98 | 5.00 | 1.25 | ..... | 9.15 | 8.00 | 19.85 | 17.25 |
| 45578 | Standard Fish Mixture 2-10-2 | Salisbury | 1.40 | .50 | 2.10 | 2.00 | 2.32 | 2.00 | .95 | ..... | 10.85 | 10.00 | 17.95 | 16.50 |
| | **United States Guano Co., Balto., Md.** | | | | | | | | | | | | | |
| 45534 | Acid Phosphate 16% | Baltimore | ... | .... | .... | .... | .... | .... | .35 | ..... | 17.55 | 16.00 | 13.23 | 12.00 |
| 45545 | 3-8-5 | Baltimore | 2.40 | .... | 3.16 | 3.00 | 6.02 | 5.00 | 1.95 | ..... | 9.15 | 8.00 | 23.62 | 21.00 |
| | **E. S. Valliant & Son, Centreville, Md.** | | | | | | | | | | | | | |
| 45507 | Acid Phosphate H. G. | Centreville | ... | .... | .... | .... | .... | .... | .10 | ..... | 14.80 | 16.00 | 11.12 | 12.00 |
| 44863 | Keystone 2-8-5 | Baltimore | 1.60 | 1.50 | 2.00 | 2.00 | 5.20 | 5.00 | .55 | ..... | 8.45 | 8.00 | 17.85 | 17.25 |
| 45508 | Pea Special 3-8-4 | Centreville | 2.60 | 2.50 | 3.16 | 3.00 | 4.84 | 4.00 | .75 | ..... | 8.75 | 8.00 | 22.19 | 20.25 |
| 45509 | Progress 3-8-7 | Centreville | 1.80 | 2.50 | 2.28 | 3.00 | 7.04 | 7.00 | .85 | ..... | 9.65 | 8.00 | 21.24 | 22.50 |
| | **Virginia-Carolina Chemical Co., Baltimore, Md.** | | | | | | | | | | | | | |
| 44838 | Acid Phosphate 16% | Baltimore | ... | .... | .... | .... | .... | .... | .80 | ..... | 16.50 | 16.00 | 12.54 | 12.00 |
| 45566 | Best Potato Formula 4-8-6 | Baltimore | 4.10 | 1.70 | 4.29 | 4.00 | 7.22 | 6.00 | .60 | ..... | 9.00 | 8.00 | 28.28 | 25.50 |
| 44818 | Early Truckers' Special | Baltimore | 3.90 | 2.28 | 5.02 | 5.00 | 5.00 | 5.00 | 2.15 | ..... | 7.15 | 6.00 | 28.37 | 27.00 |
| 44819 | Eastern Shore Potato Spec. 7-6-5 | Baltimore | 6.60 | 4.20 | 7.20 | 7.00 | 4.64 | 5.00 | 1.20 | ..... | 6.40 | 6.00 | 35.52 | 34.50 |
| 44880 | Fish Bone & Potash | Baltimore | 1.60 | .78 | 2.17 | 2.00 | 3.28 | 3.00 | 1.65 | ..... | 9.05 | 8.00 | 17.72 | 15.75 |
| 45517 | Giant Grain & Clover Mix. 2-12-2 | Baltimore | 1.90 | .78 | 2.10 | 2.00 | 2.86 | 2.00 | 2.15 | ..... | 11.25 | 12.00 | 18.90 | 18.00 |
| 45546 | Giant 3-8-3 | Baltimore | 2.80 | 2.00 | 3.09 | 3.00 | 3.04 | 3.00 | 1.60 | ..... | 8.90 | 8.00 | 20.87 | 19.50 |
| 45567 | Nat. Amm'd Guano 1-8-4 | Baltimore | .85 | .49 | 1.16 | 1.00 | 4.24 | 4.00 | 1.65 | ..... | 8.48 | 8.00 | 14.22 | 12.75 |
| 45547 | One-Nine-Three | Baltimore | .97 | .49 | 1.24 | 1.00 | 3.40 | 3.00 | 1.75 | ..... | 9.40 | 9.00 | 14.60 | 12.75 |
| 45548 | Special Compound 1-8-1 | Baltimore | .51 | .49 | 1.19 | 1.00 | 1.36 | 1.00 | 1.50 | ..... | 8.70 | 8.00 | 12.61 | 10.50 |
| 45568 | Spec. Phos. & Potash 10-5 | Baltimore | ... | .... | .... | .... | 5.08 | 5.00 | 1.80 | ..... | 10.05 | 10.00 | 11.71 | 11.25 |
| 45569 | Standard Crop Grower 2-8-2 | Baltimore | 1.70 | .78 | 2.05 | 2.00 | 2.08 | 2.00 | .85 | ..... | 8.45 | 8.00 | 15.86 | 15.00 |
| 45549 | Standard Phos. & Potash 10-2 | Baltimore | ... | .... | .... | .... | 2.08 | 2.00 | 1.80 | ..... | 10.10 | 10.00 | 9.50 | 9.00 |
| 44820 | Tobacco Grower 4-8-4 | Baltimore | 3.10 | 2.00 | 4.20 | 4.00 | 4.20 | 4.00 | 2.35 | ..... | 8.75 | 8.00 | 25.93 | 24.00 |
| 44808 | Tobacco Bed Fertilizer | Baltimore | 7.60 | 6.00 | 9.37 | 10.00 | .... | .... | 2.45 | ..... | 5.55 | 4.00 | 39.79 | 40.50 |
| 45535 | Tobacco Special 2-9-5 | Baltimore | 1.70 | .78 | 2.00 | 2.00 | 4.68 | 5.00 | 2.40 | ..... | 10.40 | 9.00 | 19.29 | 18.00 |
| | **Westminster Fert. & Feed Co., Westminster, Md.** | | | | | | | | | | | | | |
| 45628 | Acid Phosphate 16% | Westminster | ... | .... | .... | .... | .... | .... | .35 | ..... | 16.65 | 16.00 | 12.56 | 12.00 |
| 45629 | No. 2 2-9-3 | Westminster | 1.00 | 1.10 | 2.00 | 2.00 | 3.77 | 3.00 | .30 | ..... | 9.70 | 9.00 | 17.67 | 16.50 |
| 45630 | No. 3 1½-8-3 | Westminster | .44 | .85 | 1.50 | 1.50 | 3.28 | 3.00 | .75 | ..... | 8.75 | 8.00 | 14.80 | 13.88 |
| 45631 | Potato Fertilizer 2-8-5 | Westminster | 1.20 | 1.50 | 2.08 | 2.00 | 5.32 | 5.00 | .40 | ..... | 8.80 | 8.00 | 18.81 | 17.25 |
| 45632 | XX 1-9-3 | Westminster | .50 | .60 | 1.06 | 1.00 | 3.86 | 3.00 | .75 | ..... | 9.35 | 9.00 | 13.99 | 12.75 |
| | **J. Cleveland White, Salisbury, Md.** | | | | | | | | | | | | | |
| 45610 | Tomato Fertilizer 2-10-5 | Baltimore | 1.20 | .61 | 2.18 | 2.00 | 5.28 | 5.00 | 3.40 | ..... | 10.00 | 10.00 | 20.32 | 18.75 |
| | **Worcester Fert. Co., Inc., Snow Hill, Md.** | | | | | | | | | | | | | |
| 45579 | Acid Phosphate 16% | Snow Hill | ... | .... | .... | .... | .... | .... | .30 | ..... | 17.00 | 16.00 | 12.81 | 12.00 |
| 45580 | Corn Producer 1-8-2 | Snow Hill | .52 | .33 | 1.32 | 1.00 | 2.40 | 2.00 | .95 | ..... | 8.15 | 8.00 | 13.05 | 11.25 |

| No. | Name and Address of Manufacturer and Name of Fertilizer. | Place of Sampling (and Sender's initials when not Sampled by the College Agent). | $H_2O$ Sol. AMMONIA. | | NITROGEN Calculated as AMMONIA. | | POTASH, $K_2O$. | | PHOSPHORIC ACID. | | | | Comparative Value Per Ton Found. | Comparative Value Per Ton Guaranteed. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Insoluble. | | Available. | | | |
| | | | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | Found. | Guaranteed. | | |
| | **Worcester Fert. Co., Inc., Cont.** | | | | | | | | | | | | | |
| 45581 | Fish Bone Potash 2-8-2..... | Snow Hill... | **1.20** | .67 | **2.57** | 2.00 | **2.24** | 2.00 | **.85** | .... | **8.35** | 8.00 | **$17.75** | $15.00 |
| 45582 | Special Potash Mixture 1-8-4... | Snow Hill... | **.53** | 1.00 | **1.49** | 3.00 | **4.94** | 5.00 | **.85** | ..... | **9.45** | 8.00 | **16.56** | 21.00 |
| 45583 | Sweet Potato Special 3-8-5..... | Snow Hill... | **2.20** | 1.00 | **3.02** | 3.00 | **5.36** | 5.00 | **.85** | ..... | **8.55** | 8.00 | **21.93** | 21.00 |
| 45584 | Tomato Compound 2-8-5..... | Snow Hill... | **1.20** | .67 | **2.42** | 2.00 | **5.32** | 5.00 | **.55** | ..... | **8.65** | 8.00 | **19.67** | 17.25 |
| 45585 | 12-5 ..... | Snow Hill... | .... | .... | .... | .... | **5.00** | 5.00 | **.50** | ..... | **12.00** | 12.00 | **12.85** | 12.75 |